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THE FARMER'S MAGAZINE.

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THE FARMER'S MAGAZINE.

JANUARY, 1873.

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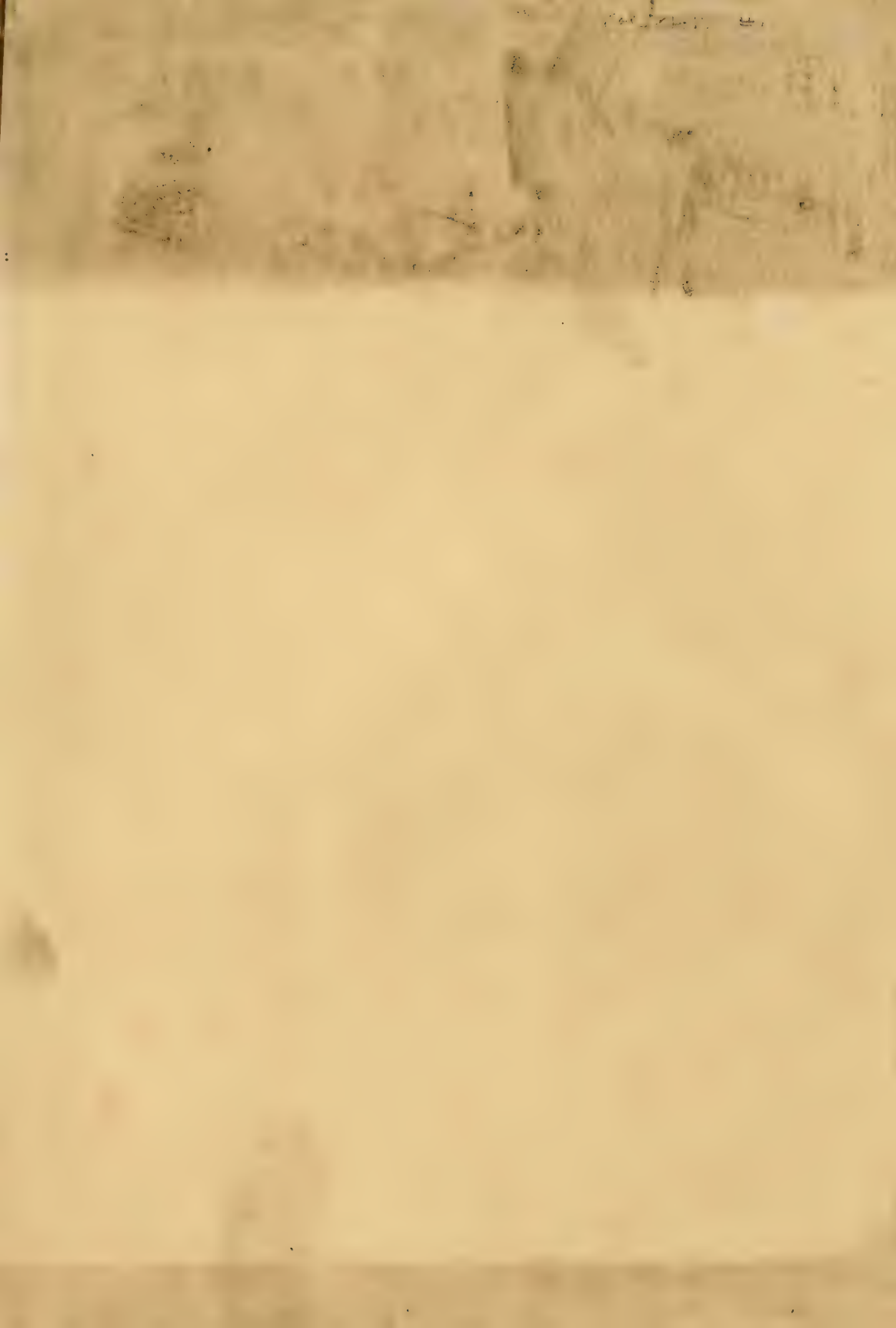
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PLATE I.

BENHAM SQUIRE.

THE PROPERTY OF MR. GEORGE TRUMPER, OF HORTON, SLOUGH.

Benham Squire, bred by Mr. Richard Sutton, at Benham Park, near Newbury, in 1867, is by Camerino, out of Juanita Perez by Melbourne, her dam Jeanette by Birdcatcher—Perdita by Langar.

Camerino, bred by the late "Squire" Osbaldeston in 1858, is by Stockwell, out of Sylphine by Touchstone, her dam Mountain Sylph by Belshazzar—Stays by Whalebone. Camerino, a very neat nag, showed some form as a race-horse, while his stock have been running for the last four or five seasons, but with so far no very high-class winners put to his credit.

Juanita Perez, an Irish mare, bred by Mr. Disney in 1851, but brought to England by the late Lord Strathmore in 1860 is also the dam of Drogheda, Waterford, Crikshank, Skeffington, A. I. Somerled, and Juanita. She has long been in Mr. Sutton's stud.

Benham Squire never ran but once, at Newmarket, and on being put out training was purchased by Mr.

Trumper, who hunts him in the winter, and travels him in the summer. The Squire has, indeed, already earned a very good character with the Royal Stag-hounds and Harriers, being up to weight, very temperate, and a fine fencer. There are some who think he would have made a crack steeple-chase horse, but his owner has put him to better account. His services are always available in the Slough district, and his fee 6 gs. for thorough-bred, and 3 gs. for half-bred mares.

At the meeting of "the Royal Counties," Hants and Berks, Agricultural Society, in the Home Park at Windsor, on the last Wednesday in June, Benham Squire took the premium of £10, as the best thorough-bred stallion for getting hunters, and has thus thoroughly qualified for a place in *The Farmers' Magazine*. He stripped a very corky clever horse, and either in the field or at the stud, promises to become a worthy successor to Mr. Tom Hussey's Sir John Barleycorn, so long and so well known in these parts.

PLATE II.

THE DOG DAYS.

Wednesday, July 3. The Dog Days begin. So says The Almanac, and our illustration should come as an especial caution against that carelessness which leaves

"water, water everywhere, nor yet a drop to drink!" Poor Pincher would seem to be in something of this case.

ROYAL AGRICULTURAL SOCIETY OF ENGLAND.

MONTHLY COUNCIL, Wednesday, June 5.—Present : Sir Watkin W. Wynn, Bart., M.P., President, in the chair; Earl Cathcart, Viscount Ossington, Lord Chesham, Lord Kesteven, Lord Tredegar, Lord Vernon, the Hon. H. G. Liddell, M.P.; Sir Massey Lopes, Bart., M.P.; Sir A. K. Macdonald, Bart.; Mr. Baldwin, Mr. Barnett, Mr. Bowly, Mr. Cantrell, Mr. Davies, Mr. Dent, M.P.; Mr. Druce, Mr. Edmonds, Mr. Brandreth Gibbs, Mr. Hornsby, Mr. Wren Hoskyns, M.P.; Mr. Bowen Jones, Colonel Kingscote, M.P.; Mr. Leeds, Mr. McIntosh, Mr. Masfen, Mr. Milward, Mr. Pain, Mr. Randall, Mr. Rawlence, Mr. Ridley, M.P.; Mr. Shuttlesworth, Mr. Statler, Mr. Stone, Mr. Thompson, Mr. Torr, Mr. Jabez Turner, Mr. Wakefield, Mr. Earle Welby, M.P.; Mr. John Wells, Mr. W. Wells, M.P.; Lieutenant-Colonel Wilson, Mr. Jacob Wilson, and Dr. Voeleker.

The following were elected Governors of the Society :

Earl Fitzwilliam, Wentworth Woodhouse, Rotherham
Earl Cowley, Draycot House, Chippingham
The Marquis of Westminster, K.G., Eaton Hall, Chester
Lord Leonfield, Petworth House, Sussex.

The following new members were elected :

Allen, Henry George, 66, St. James' Street, S.W.
Allen, J. D., Tisbury, Salisbury, Wilts
Armitage, William Sugden, Bickmarsh Hall, Redditch
Bannister, Thomas, Limehurst, Hayward's Heath, Sussex
Barrington, Viscount, M.P., Beckett, Shrivensham, Berks
Bedford, Duke of, 82, Euston Square, S.W.
Bengough, J. C., The Ridge, Wotton-under-Edge
Best, Robert Storr, Moorfields, Goole, Yorkshire
Biddulph, R. Myddelton, Chirk Castle, Chirk, Denbighshire
Boardman, Frederick B., Manoravon, Llandilo
Boyd-Kinnear, J., Courtil Rozel, Guernsey
Bridgwater, Rees W., Great Porthamel, Talgarth, Brecon
Britten, William Edward, Stapleton, Presteign
Bruce, T. R., Slogarry, New Galloway, Kirkcudbright, N.B.
Bucknill, John Charles, M.D., Hillmorton Hall, Rugby
Burke, M. R., 70, Park Street, Grosvenor Square, W.
Butler, Thomas, Dalton-in-Furness, Lancashire
Campbell, Henry, M.P., Gennings Park, Maidstone
Chandler, Charles T., Haysgate, Chepstow, Monmouthshire
Chalcraft, James, Stroud, Petersfield
Chittenden, Andrew, Detling, Maidstone, Kent
Clarendon, Earl of, The Grove, Watford
Cole, Henry, Ashbrook, Cirencester, Gloucestershire
Collingham, Joseph, Welham, Retford, Notts
Corbett, John Stuart, Cogan Pill, Cardiff
Dangan, Viscount, Draycot House, Chippingham
Davenport, W. Bromley, M.P., Capesthorpe, Congleton
Davis, Jenkin, Englefield, Reading, Berks
David, John, Ely, Cardiff, Glamorganshire
Davis, W. Mardee, Llandrinio, Oswestry
Dent, R. J., Streatham House, Darlington
Derry, Charles Main, Gedney, near Wisbeach
Digby, Reginald, Geashill Castle, Tullamore, King's County, Ireland
Duncan, George, Coldrey, Alton, Hants
Dyke, William Hart, M.P., Lullingstone Castle, Dartford
Ellison, Richard G., Boultham Hall, Lincoln
Finch, G. H., M.P., Burley-on-the-Hill, Oakham
Fisher, H. L., Helborough, Alcester
Fitzwilliam, Hon. G. W. Milton, Peterborough
Fletcher, Lionel John William, Kenward, Yalding
Garnett, Robert, Wyreside, Lancaster
Garrard, T. R., The Hall, Framlingham
Godwin, Mary, Troy Farm, Deddington, Oxfordshire
Goldsmid, Julian, M.P., Somerhill, Tunbridge, Kent
Gould, John, Bampfylde Lodge, Poltimore, Exeter
Greenwood, William, Dunham Massey, Altrincham

Grosvenor, Lord Richard, M.P., 76, Brook-street, W.
Hilder, W., Coldharbour Farm, Tenterden, Kent
Hill, George Job, White Heath, Malmesbury
Hopkins, Dr. John, Llantrisant, Glamorganshire
Hopton, John, Kemerton Court, near Tewkesbury
Howell, John Richard, Noyadd-Trefawr, Llandysil
Hudson, C. Donaldson, Cheswardine, Market Drayton
Huntley, Marquis of, Orton Hall, Peterborough
Jarvis, G. K., Doddington Hall, Lincoln
Jones, Lieut.-Colonel Alfred Stowell, Hafod-y-wern, Wrexham
Jones, Thomas, Summerfield Park, Llandiloes
Jones, W., Llwynygroes, Llanwnen, Carmarthen
Jones, W., Pantrengach, Castletown, Cardiff
Jones, W., Blackhall, Newtown
Lake, Robert, Oakley, Rochester, Kent
Lawton, W. F., Wyck Hill, Stow-on-the-Wold
Lucas, John Clay, Lewes, Sussex
Mainwaring, Salisbury K., Oteley, Shrewsbury
Millington, Mary E., Ashgrove, Ardley, Bicester
Morgan, G., Cleves Cross, Ferry Hill, Durham
Newport, Viscount, M.P., Weston-Shifnal
Newton, F. H., Farrant Abbey, Blandford
Nicholson, Thomas, 100, Lowther-street, York
Norton, Henry, Greenhill, Carmarthen
Parry, William, Corbet Arms Hotel, Towyn
Pease, Edward, Greencroft West, Darlington
Phillips, Charles, 93, Commercial-street, Newport, Monmouthshire
Picton, Robert, Box, Chippingham, Wilts
Piper, Edward, Hensill, Hawkhurst, Kent
Powell, W. R. H. Maesywynne, Whitland
Preece, Thomas, West House, Wick, Bridgend
Price, Alfred B., The West, near Bridgend
Reece, Edward Bernard, Cardiff, Glamorganshire
Rebow, H. J. Gurdon, Wyvenhoe Park, Colchester
Rendlesham, Lord, Rendlesham Hall, Woodbridge
Riley, John, Brearley House, Luddenden Foot, Yorkshire
Rockett, John Humble, Goole, Yorkshire
Rolt, John, Ozeleworth Park, Wotton-under-Edge
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Rutherford, James, 40, Eccles-street, Dublin
Ruxton, G. F. Symonds, The Crook Farm, Brechley, Staplehurst, Kent
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Stoughton, Thomas Anthony, Owlpen, Uley, Gloucestershire
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Sykes, Christopher, M.P., Brantingham Thorpe, Brough
Thomas, John, Eastfield House, Cowbridge
Turner, James Thomas, Bidwell, Thorverton, Cullompton
Turner, Thomas Austen, The Farm, Staunton-on-Arrow
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Wemyss, Maynard, Pearceclands, Westhoatley, East Grinstead
Williams, David Probert, Penbury, St. David's
Williams, Rees, Pencelly Castle, Brecon
Williams, W. Watts, Hendre, St. David's
Wright, Robert, Nocton Heath, Nocton
Wyndham, Hon. Percy, M.P., 44, Belgrave Square, S.W.
Yeld, George, Twyford, Pembrige, Hereford.

FINANCES.—Mr. Davies presented the report, from which it appeared that the secretary's receipts during the past month had been duly examined by the committee, and by Messrs. Quilter, Ball, and Co., the Society's accountants, and found correct. The balance at the bankers on May 31 was £2,773 6s. 8d., while £2,000 remains at deposit.

JOURNAL.—Mr. Thompson (chairman) reported that Mr. Corbet had accepted the office of reporter of the exhibition of live stock at the Cardiff meeting, and that the committee recommended that the application from the United States' department of agriculture at Washington be complied with, and that the Society's *Journal* be in future presented to the departmental library. This report having been adopted, Mr. Thompson, in reference to the notice which had been given by the committee, that they would move for a vote of £100 to be expended in obtaining a report on foreign agriculture, stated that there was a difference of opinion in the committee with regard to the country to be reported upon; he also mentioned that there were at present some objections to selecting France as the country to be visited, in consequence of the effect of the late war upon the agriculture of the country, and more particularly on account of the late prevalence of the cattle plague, which has not yet been entirely got rid of. He therefore preferred a district of Germany which had not been affected by these disturbing causes, and he especially selected Wurtemberg as being one of the best small-farm districts in Europe, and as being the country—according to the agricultural statistics issued by our Board of Trade, where the average production of wheat reached the high figure of 40 bushels per statute acre. Although he was of opinion that there must be some mistake in the figures, he thought that the district ought to be reported, upon, and that at the same time inquiries should be made in the Rhenish provinces and other places across the track of the armies in the late war, with a view of showing the effect of restrictions in preventing the spread of cattle plague, and, on the contrary, the spread of the plague in the absence of quarantine and other regulations. He therefore moved, "That the *Journal* Committee be authorised to expend £100 in obtaining a report by the Secretary on the farming of Baden and Wurtemberg, with some incidental notice of the circumstances attending the visit of the cattle plague to the western portions of Europe in 1870-71." After a question about the statute acre, put by Lord Ossington, had been replied to, Mr. Jacob Wilson stated that he was of opinion that it would be better to decide, in the first place, whether any grant should be made; secondly, whether the report should be on English or Continental farming; and, thirdly, if the district selected were Continental, whether it should be a large or a small farm district. He admitted that an average production of 40 bushels of wheat per acre was very wonderful if it was true, but, on the other hand, he maintained that Holland and North Germany offered lessons which the English farmer might learn, while Wurtemberg and Baden did not; and therefore he considered that a report on the large-farm district would be more in accordance with the first object of the Society as stated in the Charter, which referred particularly to the collection of information which has been proved by practical experience to be useful to the cultivators of the soil. He therefore moved as an amendment, "That, considering that a report on small farming on the Continent has so recently appeared in the *Journal*, it is not desirable at this moment to have another report on the same subject."—Earl Cathcart stated that, since the subject had been under the consideration of the *Journal* Committee, he had re-read some of the standard works on the agriculture of France; and although in that country good representatives of all the various styles of European farming could be found, he acknowledged the objections which Mr. Thompson had also admitted; and he should therefore support the original motion, although at the same time he felt the force of the view put forward by Mr. Jacob Wilson.—The Hon. H. G. Liddell, M.P., considered that one of the most important subjects of the day was the

question of checking cattle-plague and other contagious and infectious diseases of stock. The Privy Council were continually besieged by the representatives of the "consuming" interests, and he considered that the Society was the best channel through which the Privy Council could receive information that would assist them in maintaining the quarantine regulations on the importation of foreign stock; he should, therefore, concur with the journal Committee.—Mr. Randell asked whether either way was the best in which a grant of money could be expended, or whether it would not be better to limit the inquiry entirely to the cattle plague. He considered that another article on the improvement of grass land, like the one recently written by Mr. Thompson himself, rather than one on Continental farming, would be most interesting and useful to the members of the Society; but if the Council decided upon a foreign report, he would move that the investigation be confined entirely to the cattle plague.—Lord Chesham stated that he would second a proposal to omit all reference to the Continent.—Mr. Dent Dent, M.P., confessed that he, for one, knew very little of German farming, and would consider a report upon it most interesting. They had recently had reports upon home and Irish farming, and in the next *Journal* the farming of Wales would be treated of in connection with the farm prize competitions; he also urged the difficulty of keeping up the interest and readable nature of the *Journal* without such reports as the one contemplated.—Sir Massey Lopes, Bart., M.P., would prefer a report on the recent outbreak of cattle plague in Europe as being the most practical paper they could obtain. He thought that the *Journal* ought to be made practical rather than readable.—Mr. M. W. Ridley, M.P., said that, with other members of the *Journal* Committee, he did not see the necessity of spending £100 for a report on Continental farming, as he thought that, if foreign publications were searched, interesting papers might be obtained without that expenditure.—Mr. Wells, M.P., had understood that there was a unanimous feeling in the *Journal* Committee in favour of a grant for a report on Continental farming, the only difference of opinion being, as he considered, in reference to the district to be visited. He should support Mr. Thompson's proposition.—Mr. Milward, while agreeing with Mr. Wells as to the feeling of the committee in favour of the grant, would support Mr. Wilson's proposition in preference to Mr. Thompson's. After some further discussion the proposition was divided, and a vote was called for on the question whether a grant of £100 should be made for the purpose of obtaining a report by the Secretary on Continental farming. An amendment was thereupon moved by Mr. Pain, and seconded by Mr. Bowley, to leave out the words "Continental farming." On a division, the amendment was carried by 19 votes against 15. Mr. Thompson thereupon stated that, after that decision, the committee were not at present prepared to pursue the subject further.

CHEMICAL.—Mr. J. Dent Dent, M.P., reported that Dr. Voelcker had had submitted to his investigation, during the last twelve months, five cases of inferior cake, partly composed of spoiled earth-nut cake and flavoured with locust-meal. In all these cases, illness, and in some the death of the stock feeding on the cake ensued; and the Professor is carrying out further investigation for the purpose of preparing a paper for the *Journal* on the subject. The committee suggested that the use of such cakes and their effect on stock might form a fit subject of inquiry for the veterinary department of the Society.—This report was adopted.

GENERAL, CARDIFF.—Mr. Randell presented the following report: The committee recommend that 10,000

stock and 5,000 implement catalogues be printed for the Cardiff meeting; that the sum of £400 be allowed for the cost of advertising; and that the honorary director, in conjunction with the Mayor of Cardiff, be requested to communicate with the Vicar of St. John's, Cardiff, as to the arrangements for divine service in the showyard. Mr. Corbett reported that he had procured the forage and straw as requested, and also the corn in the straw for the trials of implements. The attention of the local committee having been called to the state of the preparations for supply of water to the showyard, they had undertaken to proceed therewith without delay. The committee recommended that application be made to the Home Secretary to allow the Society to obtain the services of a sufficient number of the London police during the show and the trials of implements.—This report was adopted.

SHOWYARD CONTRACTS.—Mr. Randell (chairman) reported that the committee had received the report of the surveyor, certifying that Mr. Penny, the contractor, is entitled to the payment of £1,400 on account; and that they had examined and approved a plan of a permanently constructed refreshment-shed for the Bodega Company.—This report was adopted.

JUDGES SELECTION.—Mr. Milward (chairman) reported the recommendation of the committee that the butter and cheese exhibited at Cardiff be judged on Tuesday, July 16, and that the butter may come into the yard on Tuesday until 9 o'clock in the morning.—This report was adopted.

SPECIAL COMMITTEE ON RECEIPTS AND EXPENDITURE.—Lord Vernon (chairman) presented the following report of the committee:

At the meeting of the Council held last November, attention was called to the financial results of the two last country meetings, the published accounts of which show the following deficiencies: Oxford, £2,504 4s. 8d.; Wolverhampton, £2,174 16s. 5d.; total, £4,679 1s. 1d. The following motion was thereupon adopted:

"That a special committee be appointed to consider the whole question of the receipts and expenditure of the Society, and the possibility of securing equal results at less cost."

A committee was appointed consisting of the following representatives of some of the standing committees of the Council:—Finance: Lord Bridport, Colonel Kingscote, Mr. Davies. Showyard Contracts: Lord Vernon, Mr. Randell, Mr. Shuttleworth. Stock Prizes: Mr. Dent, Mr. Milward, Mr. Torr, Mr. Jacob Wilson. Implement: Lieut.-colonel Wilson, Mr. Booth, Mr. Ransome, Mr. Thompson.

The committee met in December, and addressed the following schedule of questions to the several standing committees of the Council as well as to the officers of the Society:

1. Should the quinquennial system of trials be expanded, and thus lessen the annual expense to the Society?

2. Should the charge for accommodation be increased to exhibitors of miscellaneous articles?

3. Can medals or certificates be given in place of money as implement prizes?

4. Cost of labour at implement trials.

5. Can the cost of judges be diminished?

6. Can the showyard expenses be diminished?

7. Tickets to the Society's exhibitions—free, season, and railway.

8. Whether, and if so, by what means the number of members may be increased?

9. Investment of funds.

10. Consideration of the amounts now expended in the different departments of the Society's operations, and whether any improvement can be effected in their relative proportions?

11. Can the expenses for employment of yardmen and others be reduced?

12. Can the bulk, and therefore the expense, of the catalogues be diminished?

13. Cost of advertising and bill-posting?

14. The consulting engineer, honorary director, and secretary to report in what direction in their departments economy can be effected?

They also directed the secretary to prepare comparative tabular statements of the Society's expenditure under various heads for several years past.

The committee have since held three meetings, and received and discussed the reports in reply to these queries from the showyard contracts, stock prizes, implement, veterinary, and finance committees, as well as from the honorary director, consulting engineer, and secretary.

They recommend the adoption of the following suggestions contained in the reports received from the standing committees and the officers of the Society.

Showyard Contracts.—1. That as the Council, by obtaining tenders for the erection of the showyard works, have effected a saving to the Society of more than £1,000 per annum, and have also entered into a new contract, extending over five years, upon terms still more advantageous, the committee are unable to suggest any means of effecting any considerable further reduction in the cost of the showyard, and the Council may be satisfied with the prices agreed to be paid for the works as shown upon the plans now in use.

2. That in future there be no inner fence dividing the stockyard from the implement-yard.

3. That the space left at the entrances may be diminished in future, thereby reducing the extent, and thus the cost, of the outer fencing.

4. That the country meeting or other committee should annually consider what should be the minimum size of the showyard, and whether any reduction in extent on the present arrangement can be made by diminishing the spaces between the sheds.

5. That the present plan of horse boxes be abandoned, and the stalls plan alone be adhered to, making the spaces allotted to three stalls serve for two boxes for stallions, or mares with foals—no boxes to be allowed for other classes. The backs of these stables to serve for outer fencing as far as practicable.

Implements.—1. That the quinquennial rotation of implements for trial be expanded to a septennial, subject to a rule which shall enable the stewards to try any prominent invention which may be exhibited for the first time at any of the Society's meetings.

2. That the payment for shedding by the exhibitors of miscellaneous articles be in future years 10s. per foot; and that a new schedule of miscellaneous articles be prepared.

Stock Prizes.—That the judges of stock be paid £5 and first-class railway fare, instead of £10, as heretofore; and further, that the number of judges of live stock should be limited as much as possible, by having only two where the entries are short in number, or by one set taking more than one division.

Finance.—1. That the issue of free tickets should be restricted as much as possible.

2. That the sale of season tickets is advisable under such conditions of price as the varying circumstances of the different shows render necessary; and that there is no reason why the use of these season tickets should be restricted as heretofore, to once only on each day of the show.

3. That a carefully arranged scheme of co-operation between the Society and the railway companies would be productive of good financial results to the Society.

4. That the number of members may be largely increased by the individual exertions of members of Council and of members of the Society, in their respective neighbourhoods.

5. That a classified list of members arranged in counties be printed in the February number of the *Journal*.

6. That the Society's funds may be invested more profitably than at present, and that the Finance Committee be empowered to invest the funds of the Society in any securities in which trustees may legally do so.

Veterinary.—That in future two veterinary surgeons, with their assistants, will be amply sufficient to perform the duties required of them at the Society's country meeting.

Honorary Director's Department.—1. That the contractor be requested to engage men for the Society's work at the same price as he pays for his own.

2. That the attention of the surveyor be called to the question of the Society's permanent buildings being raised so much above the level of the ground as have been done of late years, as this entails a considerable expenditure on the local committee, and sometimes also on the Society.

3. That in future the award lists for stock contain only the

catalogue-numbers of the prize winners, and the description of the prize awarded.

4. That the attention of the surveyor be drawn to the question of substituting some other kind of division than hurdles between the sheep and pig pens, or of providing the hurdles at a cheaper rate at the close of the existing contract.

5. That the manure in the stockyard be put up for public tender previous to the commencement of the show.

6. That the railway companies be requested to convey the Society's dynamometers, boxes, &c., on the same terms as exhibitor's goods, viz., free on the return journey.

7. That in future years the cost price to the Society be charged to exhibitors of agricultural articles in the seed and model sheds, and that exhibitors of non-agricultural articles be charged 10s. per foot, as for ordinary shedding.

Secretary's Report on Catalogues.—That in future years exhibitors of agricultural implements should be charged £1 per page, or 6d. per line for odd lines, to defray the cost of printing their lists of exhibits in the catalogue; that exhibitors of miscellaneous articles (not agricultural) should be charged double that amount, and that the question of restrictions in the length of the description of each implement be referred to *Journal Committee*.

Secretary's Department.—Lodgings: 1. That the consulting engineers and engineer judges be in future allowed £1 per diem in lieu of lodgings.

2. That the accommodation for the stewards be in future provided by the authorities of towns, either free or at a certain fixed charge, and that a question to this effect be inserted in the usual country meeting queries.

Advertising: 1. That the railway advertising be dispensed with.

2. That the bill-posting in towns and villages within a reasonable distance of the showyard should be continued.

(Signed)

"VERNON, Chairman."

This report was adopted after a conversation, in the course of which Mr. Bowen Jones stated that he considered the quinquennial rotation of implements for trial long enough; Mr. Masfen urged the individual exertion of members of the Society to increase the number of subscribers; Earl Cathcart pointed out that progress was the essential principle of the Society, and should be carried out, if possible, in all its operations as well as in its list of members; Mr. Jabez Turner, Mr. Cantrell, and Mr. Randell concurred in considering that the amount given in prizes at the country meetings should not be considered a charge against the meetings; and Lord Vernon summed up the result of the work of the committee as likely to produce a gain of £1,000 per annum without any loss of efficiency.

Dr. Crisp's suggestion at the annual meeting having been laid before the Council, it was moved by Colonel Wilson, seconded by Lord Kesteven, and carried unanimously, "That no beneficial result is likely to arise from referring the condition of the agricultural labourer to a committee of this Society."

Mr. Milward gave notice that at the next monthly Council he will move that the Council meeting usually held on the first Wednesday in August, be this year held on Wednesday, July 31.

Letters were received from the Board of Trade and the Secretary of the Austro-Hungarian Embassy communicating the prize-sheet of the exhibition of dairy implements at Vienna next December; and from Mr. W. R. Robe-son, general superintendent of the Government farms in the presidency of Madras, enclosing a report of agricultural experiments, conducted on the Government experimental farm at Madras.

THE NORFOLK AGRICULTURAL ASSOCIATION.

MEETING AT LYNN.

"King's" Lynn, on Wednesday, was worthy of its title; as the meeting held within its boundaries well merited that Royal countenance which it enjoyed. Any such distinction, moreover, could not be regarded as a merely formal compliment. Had not the Prince of Wales been President of the Association, and had he not thus regarded it as a duty to attend, the probability is that his own tastes and inclination would have induced his Royal Highness to visit the show. Few men, indeed, had a more direct interest in the proceedings; and, as an exhibitor of horses, cattle, and sheep, the Prince might, on his arrival, have been tempted to ask what the judges had been doing? or have proceeded to the stalls of his own stock in search, and that not in vain, for prize placards. The Norfolk farmers were, no doubt, delighted at the masterly address in which their chairman, at the dinner, proposed success to the Society. But the secret of so genial a speech should be sufficiently apparent, as something of the very popularity of the Prince may be traced to his sympathy with the pursuits and pleasures of a country gentleman. He had some hunters of his own riding in the entry, he took the chief premiums for Southdowns, and, when he spoke of Lord Leicester or Mr. Hamond, it was good to see that he regarded these gentlemen rather as friends and neighbours than the attendants on his State, or the company of his Court. In a word, the Prince of Wales, when at Lynn, was at home—within a few miles' drive of his own house—and in the midst of

people he knew, with whom he had ridden side by side over the country, shot the covers, or fielded on the cricket ground. The President of the county Agricultural Society for 1872 was not only the Heir to the Throne but "the Squire" of Sandringham.

It should not be difficult to see how much cause Agriculture has to rejoice from so auspicious a celebration as the meeting at Lynn, when a son of Coke of Norfolk could introduce the Prince as another Norfolk farmer, while a tenant-farmer not only sat in the same line at the high table, but was amongst the most prominent of those called upon to speak. There is the right ring about a country dinner-party when we can get together the Prince from Sandringham, Lord Leicester from Holkham, and Sewell Read from his place in Parliament. The Woburn sheep-shearings, the very column on Holkham's heights, could scarcely tell of such gatherings as these, or where the interests of farmers were so directly represented through King, Lords, and Commons. And the meeting did not care to deal in only empty passing compliment. Mr. Read said in so many words that Lord Leicester's lease looked at the matter from a money-making point of view, and the Prince told the farmers that, to make the Association what it should be, they must no longer be content with beating each other, but extend its scope, after the manner of the West of England, into an East England Society.

And the Norfolk show, as at present constituted, is like

the Essex, the Suffolk, and too many more, very much a matter of all prizes and no blanks. With three or four gradually descending prizes there are often enough but three or four entries; and as the system is to encourage the judges to give something if possible to everything exhibited, the business of course sinks beneath any very close criticism, or anything beyond a limited local repute. Of course there was an occasional exception or so, as amongst the Southdowns, where the best old ram was the handsome sheep purchased last summer at the late Lord Walsingham's sale for the Prince of Wales at 100 gs. But as we said at the time, the Merton rams, though beautifully got up, were, if anything, only too high in condition, and we question whether any of them are as good now as when they came under the hammer. Sir Robert Throckmorton's good-looking sheep, "the bargain" as it seemed of the day, has not been of much use, and the Prince's ram has by no means improved in appearance, as we should question his holding any very high place at Cardiff, the more especially as there was nothing "very particular" to beat here. However, the Merton sheep will fight their own battle at the Royal meeting in July, for which Lord Walsingham has made entries in every class. The Prince's flock also won amongst the shearlings, with a coarse plain sheep, as the very judges admitted they might "use" for preference either of Mr. Colman's for smarter second or third. Size, in fact, carried the point, as we are inclined to think it seldom should do with a really pure-bred animal like the Southdown. Indisputably, with its numerical strength fairly considered, one of the best entries of Downs was Lord Sondes' pen of twenty shearlings, especially sorry, neat, and bloodlike, although the long-wool judges held out in favour of some roughish Shropshires, and Mr. Charles Howard was called into decide, as he did with no hesitation in favour of the Southdowns. Mr. Farrer had a capital pen of cross-breds, of great size and good quality, and Mr. Brown as usual took all the chief prizes for long-wools, although, as with most of the Cotswolds, the Marham flock would look to be going back. The first shearling was a fairly good sheep, but the others light and leggy, with the ewes also very stilty and gaudy in their quarters; while Mr. Henry Overman's Oxfords, although they did, of a necessity as it seemed, obtain some official recognition, could only have done so on the all-prizes-and-no-blanks system. But for this off chance it is difficult to understand how so good a judge could have sent such poor creatures out to the ground, especially when "the Prince was coming to see."

As Mr. Hugh Aylmer does not exhibit, Norfolk makes no public show of Shorthorns, and the best animals come from elsewhere, the best of all being the flashy 3rd Earl of Warwickshire, from Churchill, who, despite his journey since into Essex, certainly looked more blooming than he did at Dorchester, as he won fairly enough in a moderately good class; whereas amongst the yearlings Mr. Garne's coarse common Red Prince, with his terrible head, could have only won on the understanding that the second and third prize beasts were really worse, although this scarcely promised to be possible. Mr. Garfitt's bull-calf is a very good one, and will be heard of again; while the cow class was well filled, and Mr. How took first place with one of his good heifers, as the ladies were generally better; Mr. Garne and Mr. Barnett showing some very meritorious stock here. The best sample, however, of the Shorthorn breed was Mr. Wortley's Oakham and Birmingham steer, who has grown into an especially stylish handsome ox, and, if he can only put on a little more flesh as level as that he now carries, the roan must take a deal of beating by Christmas time. He won here in a large class of all sorts so soon

as he came out, as, despite a large and commended "field," it was less like a race than a walk-over.

As perhaps it should be, the best general show of any breed of stock at Lynn was that of the Norfolk red polls, where all the classes were well filled, and the improvement effected of late was very noticeable. Local judges of the sort said it was the best entry ever seen in the county, and the judges of the day highly commended the whole class of two-year-old heifers, if their unanimity did not extend further. Mr. Howard, indeed, undertook to teach Mr. Badham his business, and so they divided over the first and second, both the property of Lord Sondes. Mr. Newton, on being called in, declared for, as it seemed from outside, the better and altogether more stylish of the Elmham pair, as this was also Mr. Howard's choice, so that the poll authority was worsted. The old bulls Cherry Duke and Norfolk Duke are old opponents, as at Dereham last year Norfolk Duke was first and Cherry Duke third, their places being precisely the reverse here; but at Wolverhampton, where they finished first and second, Norfolk Duke also beat Cherry Duke, so that so far he has the best of the three heats. Then the second cow, Cherry, beat the first, Countess, when they met last season as heifers, the opinion being that the Shorthorn judges at Dereham were somewhat at sea over this breed; but, beyond a bull or two being put out of place, we heard little or no complaint as to the judging of the capital show of red polls on Wednesday. Some of the cross-bred milking cows were pure-bred Shorthorns—by a Shorthorn out of a Lincoln cow, and so on, although this kind of cross so far has not told in the end in Norfolk; but the yearling-off heifers were generally commended, the improvement, of course, tracing to the use of a Shorthorn bull.

It sounds scarcely intelligible to see the entry of a thoroughbred horse accompanied by a note that the breeder is *unknown*, as under such circumstances how can the pedigree be authenticated? However, both the first and second prize stallions at Lynn were in this category; the winner, moreover, having an untraceable, and, as we should hope, an improbable pedigree appended to his name—*sire*, Flying Dutchman, dam Barbelles by Sandback; that is by The Flying Dutchman out of The Flying Dutchman's dam! Shorthorn breeders, of course, have been rather prone to try such repulsive experiments, but the practice is almost unheard of amongst breeders of racing stock. This horse, Egbert, was bred at Rawcliffe in 1857, and is by The Flying Dutchman, out of *Esprit* for Liverpool, but neither his age nor his pedigree is correctly given in the catalogue; and a grave question arises whether in a class where pure blood is the leading condition a horse can be qualified when his entry in the main features is altogether wrong? According to the *Stud Book* the description of the second prize horse *Douro* is also faulty; as his dam *Jenny Lind*, bred in 1847, was by *Voltaire*, whereas the Lynn catalogue utterly destroys her identity as "*Jenny Lind*, by *Voltigeur*," a horse foaled in the same year as the mare supposed to be got by him! We are aware that the stewards and committees of agricultural societies, most probably from ignorance, pay but little attention to such points as these, although it is manifest that the door will be opened very wide if such matters are passed over, or a horse's pedigree regarded as a mere idle form to be filled in just as an exhibitor may care or not care to do. To breed hunters every one now knows that the farmer must have the use of the thoroughbred horse, and it consequently becomes very essential that such a condition on the prize-list should be strictly enforced, as this cannot be the case if loose descriptions and impossible pedigrees are suffered to pass. And in Norfolk they are taking to breeding their hunters in the right way, there

being two or three particularly stylish, promising young horses in the three and four-year-old class; while the all-aged premium was won by quite a sweet nag, the property of Mr. Hamond, the master of the Norfolk foxhounds. Of great power, for the Westacre Squire, like his father, is a welter, Birdseeker is very bloodlike, with not a trace of coarseness about him, and altogether superior to the Prince's bay put second, a useful but rather common-looking one; while His Royal Highness' own favourite, the chesnut Paddy, of more appearance than his companion, was not noticed by the judges. Neither of the prize hackney stallions were horses of any character, the great growth of the three-year-old put first being his main recommendation, as it is quite impossible to undertand how either could have been preferred to the merely commended Quicksilver, an older horse certainly, but for getting hackneys of infinitely better stamp than either of the two nondescripts put above him on the Lynn list. And this, too, is the sort of stallion which clearly requires looking up in Norfolk, for the class of Norfolk cobs from the winners downwards were as plain, underbred looking a lot as ever were brought together. The hacks were far better, with The Prince's stable in great force, and Mr. Henry Overman winning with his well-known chesnut, Jenny Lind, or as now called "Here-I-am-again," to be known next year, perhaps, as "I'm come to see you once more, you see," or by some other such facetious a title. Surely there should be a law framed and glazed against any change in the names of animals which are in the habit of appearing in public, whether on a race-course or a show-ground. And Mr. Overman's horses, nags or teamsters, are worth showing again, as in the best-filled class of the day, one generally and highly commended, that of the working pairs, the Weasenham stable took the first, second, and third prizes, with half-a-dozen of the most *comely* cart horses—there is no other word for it—ever seen together. They were so active and of such fine quality, so cheerful and thriving, that it was difficult to give the greater credit to the master or man—to the judgment displayed in breeding or buying, or to skill and care in looking after Brag, Brisk, Depper, and Jolly. The whole show here was an honour to the county, and told more for the fame of Norfolk farming than the Southdowns, the longwools, or even the red-polls. It was altogether a capital entry of cart-horses, the more especially of Norfolks, although the distinction in this way is not so easily drawn. Seeking the shade of that pleasant show-ground we encountered a very clever good-looking three-year-old stallion, the best of his class, and that a Norfolk class, but he looked like a Shire horse, is by England's glory, and travelling in Lincolnshire! It is doubtful, in the face of this, whether the Norfolk bays and browns are kept very religiously to any very particular strains of blood, as no question they have marvellously improved of late when brought out for exhibition.

The Duckering and Mr. G. M. Sexton were the only exhibitors of pigs from beyond the confines of the county, and with one exception only they carried away every first prize, with sundry seconds, a small white from Suffolk being pronounced the best pig in the show.

On the second day a very noticeable feature in the proceedings was the interest taken by the farm labourers in the implement exhibition, which was both extensive and well placed. Some of the men, in these days of strikes, might be inclined to regard at the outset a prize implement as one of their worst enemies, although no question, on a closer acquaintance, the engine or the machine will prove to be the workman's as well as the farmer's best friend. The premium for the stacking and elevating machine was only awarded with some hesitation after a

second trial, and sundry medals and commendations were also distributed amongst the following firms with stands on the ground: Baker, Wisbech; Baker, King's Lynn; Bath, King's Lynn; Bear, Sudbury; Bradford and Co., Fleet-street, London; Boby, Bury St. Edmunds; Boulton and Co., Norwich; Burrell, Thetford; Crawley and Co., Cambridge; Cutlack, Ely; Dennes and Co., King's Lynn; Dodman, King's Lynn; Edgington, Duke-street, Southwark; Everitt, North Creake; Fowler and Co., Leeds; Garrett and Sons, Leiston; Gidney, East Dereham; Hambling and Son, East Dereham; Head, Wrightson, and Co., Stockton-on-Tees; Holmes and Sons, Norwich; Hughes and McIntyre, Fakenham; Inwood, St. Albans; Jolly and Son, Norwich; Kemp, Cambridge; Le Butt, Bury St. Edmunds; Le Fevre, Norwich; Fordham Mote, March; Murton and Turner, Kenninghall; Perowne, Great Snoring; Plowright and Sons, Swaffham; Piper and Theobald, Norwich; Rands and Jeckell, Ipswich; Ransome, Sims, and Head, Ipswich; Readwin, Fakenham; Riches, Norwich; Riches and Watts, Norwich; Robey and Co. (Limited), Lincoln; Rouse, Wisbech; Sainty, Wisbech; Sanitary and Economic Manure Company, Manchester; Savage, King's Lynn; Sawney, Beverley; Sharpin, King's Lynn; The Singer Manufacturing Company, Cheapside, London; Slaton, King's Lynn; Smith, Halesworth; Thorn, Norwich; Ward, King's Lynn; Warren, Maldon; Watson, Andover; Watts and Co., Broad Weir, Bristol; Whitworth, Lincoln; Woods, Cocksedge, and Warner, Stowmarket; Woods and Son, Wells-next-the-Sea; Wheeler, Humphrey, and Co., Nottingham; Dyball, Weasenham St. Peter; Palmer Pryke, King's Lynn.

The more miscellaneous entries were headed Sutton and Sons, seedsmen, Reading, backed by Baly, Sutton, and Co., Norwich (artificial manures); Birch and Son, Lynn; Davies, Royal Polytechnic, London (cement); Day, Son, and Hewitt, Dorset-street, Baker-street (cattle medicines); Hills, Sudbury (cement); Hope, Islington (cattle food); King, Coggeshall (seeds); Packard and Co., Ipswich (manures); Sharpe, Wisbech (seeds); Tipper, Balsall, Birmingham (cattle meal); Townsend, Fordham, Cambridgeshire (seeds).

PRIZE LIST.

JUDGES.—CATTLE: G. D. Badham, Bulmer Tye, Suffolk; C. Howard, Biddenham, Beds. NORFOLK CART-HORSES: T. Plowright, jun., Finchbeck, Lincolnshire; T. Wood, Wychley Warren, Lincolnshire. CART-HORSES OF ANY BREED: N. G. Barthropp, Hacheston, Suffolk; J. Nix, Chatteris, Cambridgeshire. THOROUGH-BRED AND HUNTING HORSES: G. Higgins, Bedford; C. M. Nainby, Barnoldby-le-beck, Yorkshire. HACKNEY AND RIDING HORSES AND PONIES: H. Beavor, Blyth, Notts; H. Thurnall, Royston. SOUTHDOWN SHEEP: H. Fookes, Whitechurch, Blandford, Dorset; W. Rigden, Hove, Sussex. LONGWOOLLED SHEEP: Henry Dudding, Pantton, Lincolnshire; R. J. Newton, Campsfield, Woodstock. PIGS: J. S. Turner, Chyngton, Sussex. IMPLEMENTS: T. Chambers, Colkirk, Norfolk; John Fergusson, Brettenham, Norfolk.

CATTLE. SHORTHORNS.

Bull, above three years old.—First prize, £10, A. Hamond, Westacre (Prince Louis); second, £7, J. Morton, Stow (Faunsit); third, £4, J. Eastland, Terrington St. Clement's (Baron Pantton).

Bull, above two years old and not exceeding three years.—First prize, £10 and 10 gs., G. Garne, Chipping Norton, Oxon (3rd Earl of Warwick); second, £7, James How, Broughton, Hunts (King Victor); third, £4, N. Catchpole, Bramford, Suffolk (Oxford prize). Highly commended: J. Upson, Rivenhall, Essex (Duke of Westwood).

Bull, above one year old and not exceeding two years.—First prize, £10, G. Garne (Red Prince); second, £7, Charles Beart, West Head, Stow Bridge (Master Blithe); third, £4, W. Golder, Wimbotsham (Hopewell 3rd).

Bull calf.—First prize, £5, A. Garfit, Scothern, Lincolnshire (Lord Brilliant); second, £3, R. H. Wiles, Nordelph.

Cow, above three years old.—First prize, £10, G. Garne (Princess Alexandra); second, £7, N. Catchpole (Daisy); third, £4, N. Catchpole (Coronet). Highly commended: J. Morton (Beauty's Queen); and J. Upson (Moss Rose). Commended: Captain C. R. Catling, Needham Hall, near Wisbech.

Heifer, above two and not exceeding three years old.—First prize, £5 and £5, J. How (Verona); second, £7, G. Garne (Ladybird); third, £4, N. Catchpole (Lady Lubbock).

Heifer, above one year old and not exceeding two years.—First prize, £8, G. Garne (Butterfly's Duchess); second, £5, C. Barnett, Stratton Park, Biggleswade, Beds (Bertha Oxford the 2nd); third, £3, J. Morton (Daphne). Commended: Captain Catling.

NORFOLK AND SUFFOLK RED FOLDED.

Bull, above three years old.—First prize, £10, J. J. Colman, M.P., Norwich (Cherry Duke); second, £7, Lord Sondes, Elmham; third, £4, B. Brown, Thursford (Norfolk Duke). Highly commended: B. Brown (Duke).

Bull, above two years old.—First prize, £10, J. J. Colman, M.P. (Easton Duke); second, £7, J. Hammond, Bale (The Baron); third, £4, G. M. Nicholson, Gressenhall (Nobleman).

Bull, above one year old.—First prize, £10, and Prince of Wales' prize 10 gs., Lord Sondes; second, £7, T. Brown, Marham (The Agent); third, £4, T. Brown (The Peer).

Bull calf.—First prize, £5, T. Brown; second, £3, Sir W. Jones, Bart., Cranmer Hall (Broadback). Commended: J. Hammond (Red Duke).

Cow, above three years old.—First prize, £10, B. Brown, Thursford (Countess); second, £7, Sir W. Jones, Bart. (Cherry); third, £4, J. Hamond (Mrs. Davy).

Heifer, above two years old.—First prize, £10, Lord Sondes; second, £7, Lord Sondes; third, £4, B. Brown (Duchess). Class highly commended.

Heifer, above one year old.—First prize, £8, B. Brown (Hansom); second, £5, Lord Sondes; third, £3, W. Betts, Fritcham.

Best collection of Norfolk and Suffolk red polled animals exhibited.—Extra prize, £10 10s., Lord Sondes.

Heifer calf.—Prize, £5, Lord Sondes.

CROSS-BRED.

Cow, above three years old.—First prize, £10, H. Overman, Weasenham (Cactus); second, £7, H.R.H. the Prince of Wales (Jewel); third, £4, H.R.H. the Prince of Wales (Lady).

Heifer, above two years old.—First prize, £10, H. Overman (Kind); second, £7, E. Durrant, Wimbotsham; third, £4, J. Morton (Moss Rose). Commended: H. Overman (Beauty).

Heifer, above one year old.—First prize, £8, W. Johnson, Walpole; second, £5, W. Johnson; third, £3, H. Overman (Rosebud). The class commended.

Fat Steers, Cows, and Heifers.

Steer, above three years old.—First prize, £8, and Prince of Wales' prize, £10 10s., E. Wortley, Ridlington, Rutland; second, £5, W. Durrant, Brunstead. Highly commended: H.R.H. the Prince of Wales. Class highly commended.

Steer, not above three years old.—First prize, £8, W. T. Brackenbury, Shouldham Thorpe; second, £5, W. Howe (Prince Charlie). Highly commended: R. Wartley, Suffield. Class commended.

Cow, above three years old.—First prize, £8, J. J. Colman, M.P. (Norfolk Duchess); second, £5, N. Catchpole (Acacia).

Heifer, not above three years old.—First prize, £8, J. B. Aylmer, Fincham (Sunbeam); second, £5, H.R.H. the Prince of Wales (Miss Farren). Highly commended: Prince of Wales and W. Durrant.

HORSES.

NORFOLK CART HORSES.

Stallion, not under four years old.—First prize, £15, J. How, Denver (Farmer's Glory); second, £7, J. Taylor, Walpole St. Peter (Young Matchless).

Three-year-old stallion.—First prize, £10, R. K. Foley, Long Sutton, Lincolnshire (Major); second, £7, W. Searle, March, Cambs (Emperor); third, £4, J. Anthony (Young Emperor).

Two-year-old stallion.—First prize, £8, L. J. Palmer, Snetterton (Monarch); second, £5, G. Jones, Stow Bridge (Lion); third, £3, J. Waltham, Parson Drove, Wisbech (Young Honest Tom).

Yearling entire colt.—Prize, £7, T. Brown, Marham.

Mare and colt.—First prize, £10, W. Betts, Bunwell (Diamond); second, £7, E. Crowe, Denver (Smart); third, £4, H. Overman (Gipsy).

Gast mare, not under four years old.—First prize, £5 and £5, C. Edwards, Stow Bardolph (Pink); second, £7, W. Betts (Brandy); third, £4, H. Overman (Diamond).

Three-year-old gelding.—First prize, £7, W. How (Short); second, £4, T. Brown.

Three-year-old filly.—First prize, £8, E. Betts, Moulton; second, £5, E. Betts; third, £3, T. L. Taylor, Starston (Duchess).

Two-year-old filly.—First prize, £8, T. Brown; second, £5, W. How (Darling); third, £3, C. Beart, Stow Bridge (Lioness).

Yearling filly.—First prize, £8, H. Little, Wiggenhall St. Mary (Lightsome); second, £5, T. Brown; third, £3, H. Little (Gipsy).

Pair of cart horses.—First prize, £10, H. Overman (Brag and Brisk); second, £7, ditto (Short and Depper); third, £4, ditto (Gilbert and Jolly). The class highly commended.

CART HORSES OF ANY BREED.

Stallion, not under four-years-old.—First prize, £10, S. Walton, Butley, Suffolk (Monarch); second, £7, C. Boby, Sutton, Suffolk (Royal Prince).

Three-year-old stallion.—Prize of £8, G. D. Badham, Bulmer Tye (Sultan).

Two-year-old stallion.—First prize, £6 and £15, M. Hopper, Whittlesey, Cambs (Prince of the Isle); second, £4, S. Wolton.

Yearling entire colt.—First prize, £5, C. B. Mason, Beechamwell (Sultan); second, £3, B. W. Ground, jun., Whittlesey. Mare and foal.—First prize, £10, B. Mitchell, Denver (Blossom); second, £7, Infield Jones, Wimblington, Cambs (Star).

Gast mare, not under four-years-old.—First prize, £10, H. Wolton, Newbourn, Suffolk (Diamond); second, £7, C. Handley, Walpole St. Peter (Gipsy).

Three-year-old filly.—Prize of £6, E. Crowe, Denver (Blossom).

Two-year-old filly.—First prize, £5, E. Crowe (Flower); second, £3, T. Brown.

Yearling filly.—No merit.

THOROUGHBRED STALLIONS.

Stallion.—First prize, £15, T. Upton, Gosberton, Lincoln (Egbert); second, £8, J. T. Mills, Clermont (Douro).

HUNTERS.

Mare or gelding, equal to carry not less than 14st.—First prize, £15, A. Hamond (Birdseeker); second, £8, H.R.H. the Prince of Wales (Campaigner).

Mare or gelding, not equal to carry 14st.—First prize, £10, R. G. Beart, Raynham (Brunette); second, £5, J. T. Mills (Ratcatcher).

Three or four-year-old colt or filly.—First prize, £10, J. T. Mills (Ruby); second, £5, R. Bygott (North Crake).

Blood mare.—First prize, £10, J. Tomlinson, Sutton Marsh, Lincolnshire (Sloughby); second, £5, R. Bygott.

HACKNEY AND RIDING HORSES.

Stallion, for saddle or harness.—First prize, £15, E. Jolly, Banham (Pride of the Isle); second, £8, H. F. D'Oily, Hempnall (Confidence). Highly Commended: T. Upton (Young Quicksilver).

Riding mare or gelding.—First prize, £10, H. R. H. the Prince of Wales (Delight); second, £5, ditto (Prudence). Commended: S. Delf, Christchurch (Pearl), and W. H. Betts, Frenze (Beauty).

Hackney mare or gelding.—First prize, £10, H. Overman (Here I am again); second, £5, W. Cann, Wymondham (Princess). Highly Commended: J. Sewell, North Pickenham. Commended: J. Finch, Swaffham (Miss Nolan). Class generally commended.

Hackney brood mare.—First prize, £10, C. Cook, Litcham (Bell); second, £5, C. Edwards (Creamy). Commended: C. Edwards (Nanny).

COWS.

Cob.—First prize, £10, C. Cook (Robin); second, £7, F. W. Beck, Mileham (Robin); third, £4, W. W. Middleton, Fitcham (Duke).

PONIES.

Pony, not under thirteen nor more than thirteen three inches high.—First prize, £5 and £3, W. J. Beart, King's Lynn; second, £5, G. W. Gayford, Wolverton (Toby); third, £3, T. H. Edwards, Keswick (Deception). Commended: C. Willis (Topsy).

Pony, not above thirteen hands high.—First prize, £5, W. Barker, Great Melton; second, £3, H. R. H. the Prince of Wales (Peg Top). Commended: J. Johnson, Terrington St. Clement, and R. K. Folley, Long Sutton, Lincolnshire (Quick-silver).

SHEEP.

SOUTHDOWN.

Shearling rams.—First prize, £10, H. R. H. the Prince of Wales; second, £7, J. J. Colman, M.P.; third, £4, J. Colman. Ram of any age.—First prize, £10, H. R. H. the Prince of Wales; second, £7, C. Boby; third, £4, J. Overman. Highly Commended: Lord Sondes. Commended: J. J. Colman, M.P.

Five shearling ewes.—First prize, £7, Lord Sondes; second, £4, J. J. Colman, M.P. Highly Commended: H. R. H. the Prince of Wales.

Ten ewe lambs.—First prize, £5, Lord Sondes; second, £3, H. R. H. the Prince of Wales. Commended: J. J. Colman, M.P.

Ten wether lambs.—First prize, £5, Lord Sondes; second, £3, H. R. H. the Prince of Wales. Commended: Sir W. Jones, Bart.

LONG WOOLLED.

Shearling ram.—First prize, £10, T. Brown; second, £7, T. Brown; third, £4, T. Brown.

Ram of any age.—First prize, £10, T. Brown; second, £7, T. Brown; third, £4, Thomas Thornton, Wreham.

Two ram lambs.—First prize, £3, T. Brown; second, £5, T. Brown.

Five shearling ewes.—First prize, £7, T. Gunnell, Milton, Cambs.; second, J. Giblin, Bardfield, Essex.

Ten ewe lambs.—First prize, £5, T. Brown; second, £3, T. Brown.

SHEEP OF ANY BREED

Ten ewe or wether lambs.—First prize, £10, G. Cooke, Horseheath, Cambs; second, £7, J. L. Barrat, Barney.

Three shearling wethers.—First prize, £7, E. Farrer, Sporre; second, £4, G. Cooke.

Ten ewes.—First prize, £10, Lord Sondes; second, £5, T. Brown. Commended: T. Brown.

Ten ewes not being Southdown or Long-woolled.—First prize, £10, G. Cook; second, £5, H. Overman. Commended: T. Fulcher, Elmham.

Twenty shearling ewes.—First prize, £5 and £5, Lord Sondes; second, £7, G. Cooke; third, £4, John Sewell, North Pickenham. Highly commended, T. Brown. Commended: H. R. H. the Prince of Wales and H. Overman.

PIGS.

LARGE BREED.

Boar, above twelve months old.—First prize, £5, Duckering and Son, Northorpe, Lincolnshire.

Boar, not above twelve months old.—First prize, £5, Duckering and Son; second, £3, Lord Rendlesham.

Breeding sow.—First prize, £5, Duckering and Son; second, £3, F. H. Everitt, Bridgham.

SMALL BREED (BLACK OR BERKSHIRE).

Boar, above twelve months old.—First prize, £5, G. M. Sexton, Wherstead, Suffolk; second, £3, Lord Rendlesham.

Boar, not above twelve months old.—First prize, £5, G. M. Sexton; second, £3, Lord Rendlesham.

Breeding sow.—First prize, £5, Duckering and Son; second, £3, G. M. Sexton. Highly commended: F. H. Everitt and J. N. Waite.

Three breeding sows, not above twelve months old.—First prize, £5, G. M. Sexton; second, £3, Lord Rendlesham.

SMALL BREED (WHITE).

Boar, above twelve months old.—First prize, £5, Duckering and Son; second, £3, Duckering. Highly commended: C.

North, Rougham; R. C. Winearls, Marham; Rev. T. L. Fellowes, Honingham; and H. R. H. the Prince of Wales.

Boar, not above twelve months old.—First prize, £5, and £5 as best of all the boars, G. M. Sexton; second, £3, G. D. Badham. Class commended.

Breeding sow.—First prize, Duckering and Son; second, £3, F. H. Everitt. Highly commended: Lord Rendlesham. Class highly commended.

Breeding sow, not above twelve months old.—First prize, £5, R. C. Winearls, Marham; second, £3, G. M. Sexton. Highly commended; R. C. Winearls.

IMPLEMENTS.

Stacking and elevating machine for straw, hay, or sheaf corn.—The prize of £10 to S. G. Soame, Marham (Price £55).

SILVER MEDALS to Holmes and Son, for turn-table applied to elevator; Everitt, North Creake, for sheep troughs with wheels; Sutton and Sons, for collection of grasses, roots, and seeds.

HIGHLY COMMENDED.—King, Coggeshall, for roots and seeds; Baly, Sutton, and Co., for artificial manures and agricultural chemicals; Birch and Son, for invalid carriages and garden seats; Davies, Royal Polytechnic, for cement; Day, Son, and Hewitt, for horse and cattle medicines; E. Hills, Sudbury, for adamantine cement; Hope, Islington, for cattle food; Packard and Co., for manures; Sharpe, Wisbech, for seeds and plants; Tipper, for cattle food; Townsend, Fordham, for seeds and plants; Baker, Lynn, for winnower.

COMMENDED.—Baker, Wisbech, for cabbage cutter.

THE DINNER.

At five o'clock a party of many hundreds sat down; H. R. H. the Prince of Wales presiding. On the right of the President was her Royal Highness the Princess of Wales.

HIS ROYAL HIGHNESS the PRINCE OF WALES gave the health of her Majesty the Queen.

Lord LEICESTER said: May it please your Royal Highnesses, my lords, ladies, and gentlemen, I have had on many occasions the honour of proposing to you at public meetings in this county that toast which our president has now placed in my hands; but this is the first time that I have had the great pleasure of proposing that toast in the presence of those whose names are mentioned therein. In times past the giving of this toast was an easy duty, but on the present occasion it is a difficult one. But, my lords and gentlemen, I have the utmost possible pleasure in giving you "The health of their Royal Highnesses the Prince and Princess of Wales, and the rest of the Royal Family." In calling upon you to drink that toast, I assure you no words of mine are necessary, even if my tongue were not tied by the presence of their Royal Highnesses, to increase in the slightest degree the feeling of love and loyalty that exists in your hearts, or add one more cheer of welcome to those you have now given them. I may, however, as one deeply interested in this Association tender the thanks of the members of this Association to his Royal Highness for the assistance he has given us to-day, for the support he has ever given to that pursuit with which we are so intimately connected. I may thank him on the part of the county of Norfolk for the liberal aid he has always given to her charitable institutions, and for the interest he has ever shown in the proceedings of the county, whether it be in the advancement of science, the extension of education, or the amusements of her people, whether as a colonel of a militia regiment, or as a supporter of our foxhounds, or in his private capacity as a landlord setting us an example by his kind and considerate conduct towards his tenants, and not only towards the occupiers of land, but towards all the labourers on his estate. We are grateful to his Royal Highness for these and for more than these. Beyond all and above all these we are indebted to his Royal Highness for the presence on this occasion of her Royal Highness the Princess of Wales. I have to offer to her Royal Highness the thanks of the Association for the great and signal honour she has conferred upon the society in attending here to-day, and for the example set by her to the women of England. And while I deplore that spirit of action which some women at the present day are inclined to take in these matters, and which alone should belong to men, I have long wished that wives should be more associated with their husbands in those undertakings in which there should be a mutual interest.

When we see ladies competing for prizes at societies like this, I think we may fairly conclude that the science of agriculture is within their province. I now call upon you to wish health and happiness to their Royal Highnesses the Prince and Princess of Wales. The promise the Prince made to be present to-day he has, by the blessing of God, been able to fulfil. There was a time, in those dark December days, when no one here present ever expected to see his Royal Highness again. But as it pleased God to listen to the prayer of the English people, and to spare his life, may that life be devoted to the service of the Queen, to the welfare of the people of this country, and to the promotion of all that is good and all that is useful. We know that the illness with which it has pleased God to afflict his Royal Highness was in many ways a mercy, more especially in calling forth that deep feeling of love and loyalty for her Majesty, for his Royal Highness the Prince of Wales, and for her Royal Highness the Princess of Wales, a circumstance which I am sure the Prince will never forget as long as he lives. [The Prince bowed his acquiescence.] I ask you to drink with hearty cheers "The health of their Royal Highnesses the Prince and Princess of Wales, and the rest of the Royal Family."

The toast was drunk by the company upstanding with great enthusiasm, the band playing God bless the Prince of Wales!

HIS ROYAL HIGHNESS, the PRESIDENT, said: After the excessively kind and flattering manner in which my noble friend, the Lord-lieutenant, has proposed my health and that of the Princess and the other members of my family, I feel that I can hardly ever thank him sufficiently for those kind words which he has uttered. Allow me also to thank you, ladies and gentlemen, for the kind reception you have given the Princess and myself this day, and I feel sure that you know that they are not mere idle words when I say how deeply thankful we are for the reception you give us upon all occasions. I am truly glad that it was in my power to fulfil the promise that I made of presiding to-day, and of now occupying the position of President of this Association. If under my presidency this meeting has been a success, I shall always feel it a high compliment to myself to have been connected with it. The noble lord has also been kind enough to make some flattering allusions to me as a landlord. Gentlemen, it is always difficult—and it is right that it should be difficult—for one to receive praise before one's own face; at the same time, by the warm approval given by you to-day to the words so kindly spoken by Lord Leicester, I feel that during the nine or almost ten years I have lived in your county, I have not, at any rate, been behind hand with the other landlords who so ably perform their duties. One ought never to be satisfied with what one does in this world. You may all of you be convinced that it shall be my earnest endeavour always to promote everything that will be most useful to the country at large, to which I am chiefly bound, but also that will be conducive to the wellbeing and good of this county, to which I now feel myself so much endeared. The Princess also desires me, in responding in her behalf to the toast so kindly given by Lord Leicester, to thank you all for the warm reception you have always given her whenever she appears in public. No one agrees more thoroughly than I do with the noble lord that in certain movements ladies ought not to take a part, but to leave them to their husbands or fathers. But that, if they are able to associate with their husbands or fathers in any object, it is most desirable they should do so. When the Princess does not accompany me on any public occasions, I always feel that something is wanting. One other subject referred to by Lord Leicester I hardly like to allude to—my recent long and painful illness. I shall never, you may be quite sure, forget that kind expression of feeling shown towards me, a fact which did not come to my knowledge until some months later. Not only do I accept that as a kind expression of feeling towards myself, but as an evidence of the feelings entertained by this great and enlightened country towards the Queen, my mother, and for that monarchical system under which we live. Never, ladies and gentlemen, can I thank you sufficiently—for you represent, I may say, the whole county of Norfolk—for the feeling you have expressed towards me, and both myself and the Princess are grateful to you for it.

The ROYAL PRESIDENT rose again and proposed the Army, the Navy, and the Reserved Forces.

General Sir WILLIAM KNOLLYS, Admiral Sir HENRY KEPPEL, and Lord SUFFIELD in turn responded.

Mr. C. S. READ, M.P., said: Your Royal Highnesses, ladies, and gentlemen—I have the high honour and the great pleasure to propose the next toast. In some counties it is a formal toast; it is not so in the county of Norfolk—for I have to give The Health of Lord Leicester, our Lord-Lieutenant. Wherever improved agriculture is known, the name of Coke, of Holkham, is known and respected. Our fathers and our grandfathers looked to Holkham for all the new improvements of their day, and we now look to Holkham for all that is sound, practical, and useful, and, I would add, in these degenerate days, money-getting. Before giving you "The Health of Lord Leicester," let me first say that this is surely a truly red-letter day in the agricultural calendar of Norfolk, especially so when we consider the grand, magnificent, and most successful Show which has this day been held under the presidency of his Royal Highness the Prince of Wales. We seem to be in the hey-day of our prosperity, for we have accomplished our highest efforts as a county show. But, nevertheless, I hope we shall still continue to prosper. But I think we must look forward to a more extended sphere of usefulness; we wish still to prosper and succeed. One word more about the Lord Lieutenant. We, as Norfolk farmers, have to thank him for having drawn up, with the aid of his tenantry, a long and liberal and truly noble lease. That lease is no empty form, for those who have the honour of living on the Holkham estate know full well that they have the support and the sympathy of a kind, a generous, and a beneficent landlord. I now ask this distinguished and numerous company to drink to the Health of Lord Leicester, the Lord Lieutenant of the county of Norfolk.

The toast was drunk with three times three.

LORD LEICESTER, in responding, said: Perhaps I may attribute the reception you have given me more to my being a farmer than to anything else. I, like my father, have devoted the energies of my life to the promotion of agriculture, and be assured, gentlemen, that I will always act with you as far as I can in retaining for our county the high position which it now holds among the agricultural counties of England (cheers).

Mr. G. W. P. BENTINCK, M.P., proposed The Health of the Bishop and Clergy of the Diocese, to which the Bishop of Norwich responded.

THE ROYAL PRESIDENT said: My lords and gentlemen: It is now my high privilege, and I will also say great pleasure, to propose to you the principal toast of this evening, Prosperity to the Norfolk Agricultural Association. I feel sure, gentlemen, that this is a toast which we ought to drink in bumpers. Many of my predecessors have, I feel convinced, made long and able speeches on this toast which is capable of embracing a great many important and interesting subjects. I will not, however, as I know people are anxious to return to different parts of Norfolk and to other counties, weary you with too long a speech; nor will I trouble you with any dry statistics. I will only make a few remarks concerning this excellent Association, and state a few facts relating to it. As you are all doubtless aware there were formerly two Agricultural Societies in Norfolk, one in the east and one in the west. I believe that about thirty years ago those two Associations joined together, and thus became one Society, holding its annual meeting at Norwich and Swaffham alternately. Ten years ago, it was decided that those meetings should be held annually at different towns of the county, and I think that it was at King's Lynn where the first of those shows was held. There is no doubt that this change has been in every respect highly beneficial to the finances of the society. It has given a greater stimulus to, and excited a greater interest in, the association, for as people go from town to town and make acquaintances right and left, an interchange of ideas takes place on agricultural and other subjects. In that manner these associations are benefited in a very marked degree (Hear, hear); and I trust that I may not be incorrect in stating that at the present time this association is in a highly flourishing condition (Hear, hear). It also affords me great pleasure to be able to inform you that there are sixty more entries of stock and one hundred more entries of implements than in any previous year. No doubt these facts were known to most of you, but, at any rate, it gives me great pleasure to state it.

Norfolk, gentlemen, has always been held up to our other counties as one of the best farmed in the kingdom. I am glad that it is in my power to allude to the name of one who, although now no more, is remembered amongst you, and who is represented here by his son (the Earl of Leicester)—the late Lord Leicester, more generally and popularly known as Coke of Norfolk. This is a name that has been referred to by several gentlemen who have spoken to-day. I feel proud in having this opportunity of mentioning his name, and of reminding you that to him the origin of this association is due (Hear, hear). It remains as a part of the history of the county that to the Holkham "sheep shearing," where the late Lord Leicester's tenantry met to compete one with another, does this association owe its origin. His name has not been forgotten by any of you, and by none less than by his son, whom I will not attempt to compliment, because I know no one to whom such a thing would be more disagreeable. The way in which you have received him here to-day shows how popular he is amongst you as lord-lieutenant, and also as a landlord (cheers). Norfolk has also always held up its head high as regards the breeding of cattle and sheep. Amongst breeders of cattle, I may perhaps be allowed to mention two great names, those of Lord Sondes and Mr. Aylmer, and amongst the breeders of sheep, those of Lord Sondes, Mr. Aylmer, Mr. Brown, and Mr. Overman. There was also another well-known name associated with sheep-breeding in Norfolk, that of the late Lord Walsingham, who, it is to be regretted, is no more in our midst. We all know what an interest he took in the association, and also in agriculture, both in this county and throughout the kingdom, and how justly celebrated were his Merton flock. I hope that flock is as famous still; and from what I hear of the present Lord Walsingham—who is many thousands of miles from us, but whom we soon hope to see again amongst us—it seems to be his intention to maintain that celebrated flock of sheep, of which every Norfolk man has been so proud. Of myself as a farmer I will say but little. I farm on a very small and lilliputian scale, for I only cultivate 600 acres. But I take the very greatest and deepest interest in all that concerns agriculture. No one regrets more than I do that I am not able to give so much time to it as I should like, at the same time I feel proud at being able to walk in the footsteps of my late father—(prolonged cheers)—who took a deep interest in all that concerned agriculture and the well-being of the farmer. As you are aware, the Queen also keeps up those farms which my father once had, and is an exhibitor at all the great meetings throughout the country (cheers). By the way in which you have received the name of my father, I know how much you revere his memory (Hear, hear). It is not necessary for me to mention to you how deep an interest he took, and what pride he took in different shows. It was always his custom before any great exhibition, especially the Christmas shows, to take myself, my brothers and sisters, to see the animals that were to be exhibited. But, gentlemen, I wish to bring before your notice a topic which has been much thought of, if not much discussed, by many present. All Norfolk men are satisfied, as they have every reason to be, with the show of to-day as well as with previous exhibitions; but, as I have already said, much as we may be satisfied with ourselves, we should always wish to do better. It has been thought by many—and I am only too glad to be able to give my opinion upon the subject—that the area of the association should be enlarged. Last year I had the opportunity of going to Guildford to see the most excellent show of an association called the Bath and West of England Agricultural Association. That association is composed of gentlemen residing in several counties. Now, gentlemen, why should we not also extend our area, and include in our agricultural association other counties, say Lincolnshire, Cambridge and Suffolk? That is a question I will leave to your consideration. As the means of travelling are so great that people can go from one county to another with great facility, and as so many gentlemen belong to other counties compete in the county associations, I feel sure that it would be desirable and for the good of each county to place the associations on a broader basis. The effect of this would be beneficial to the associations, to the interest of farmers and to all concerned in agriculture. There are two other topics to which I will allude before sitting down. In one of them I take a special interest. It is one in which every landlord ought to feel strongly—and I hope as strongly as I do—namely, cot-

tage accommodation. A landlord who has a fine estate, whether it be great or small, ought, if that estate be well cared for, at least to have a pride—putting it upon that ground only—in providing his tenants and his labourers with proper house accommodation (Hear, hear). Merely out of self-conceit he ought to do this. But there are far higher motives which should influence him, for what can be more desirable than that one should wish his men who work hard from early morn till night should, when their labour is done, find a comfortable home to receive them? Such a home will improve their moral and physical well-being (cheers). Those cheers show how unanimous your views are on this important subject. I feel also convinced that there are few landlords present who do not entertain the same views and who do not desire to carry them out to the utmost of their power. In a small way I have during the nine or ten years I have been a Norfolk man, been able to do so myself (cheers), and it is every year a source of great pride to me on coming to my estate to see cottages gradually cropping up, for it is a matter of satisfaction to me, having built a new house for myself, to know that the labouring men employed upon my estate to improve it are also comfortably housed. There is another subject to which I will allude, though I fear you will think I am breaking my engagement in promising not to make a long speech. Allusion has been made by the Bishop to the subject of a Norfolk middle-class school. As a county man I am glad, as I am sure your Bishop is, that there is a prospect of establishing a great and important county school. The subscriptions now, I believe, amount to the sum of £10,000. This shows how warmly everybody in the county feels the necessity for a great school of the kind. I hope that before long the first stone of the school will be laid. I can only say that should I be anywhere near Norfolk—I won't promise it—or able to come down, it would give me the greatest pleasure to lay the foundation stone myself (loud cheers). In conclusion, his Royal Highness called upon the company to drink in an enthusiastic manner the toast, with which he associated the health of Lord Sondes, who, he said, was so justly popular and beloved (loud cheers).

LORD SONDES, in responding, said his Royal Highness had alluded to the fact that he was very much devoted to a particular breed of sheep. Now, he certainly was very proud of his Southdowns, although he knew that several gentlemen did not approve of that breed. But whether this was or was not a suitable breed of sheep, he was anxious to secure a true breed of some sort. Although it might be argued that cross-bred sheep were the most profitable, and possibly that was so, yet he considered that it would be far better to have a true breed even if they had a flock of Southdowns. Whenever he won a prize he was of course delighted; but he was not less gratified when he was beaten by his Royal Highness. The Prince of Wales had to-day won several prizes, showing that he had exhibited sound judgment in the selection of his stock. Even when other breeders took away prizes he was not discontented or discouraged, because this very fact showed that his desire was being reciprocated by others, and that more Southdown or true-bred sheep were now to be found in the county than was the case when first he commenced breeding many years ago.

SIR W. JONES, Bart., gave the health of the Members for the County and for the Borough of Lynn.

SIR W. BAGGE, Bart., M.P., responded. Something had been done by the House of Commons this year. On the subject of local taxation, Sir Massey Lopes had succeeded in passing by a large majority a resolution in favour of transferring permanent charges to the Consolidated Fund. It was high time that something was done in the way of relieving local rates, and he thought it probable that if this matter was adjourned for the same length of time as was another matter—viz., eight months—a satisfactory solution of the question would be arrived at.

THE ROYAL PRESIDENT next gave the health of the Mayor and Corporation of King's Lynn.

THE MAYOR OF LYNN thanked his Royal Highness for the great honour conferred upon himself and Corporation.

THE ROYAL PRESIDENT proposed the last toast—that of the Ladies. He said that although the last this toast was by no means the least important. He could only say that on such an occasion he was glad to see so large a number of fair

ladies present amongst them; he hoped that the innovation was one that would meet with general approval, and that it would be continued on future occasions.

Mr. A. HAMOND, whose name was coupled with the toast, briefly responded.

The dinner itself was not one of the cheapest we ever sat

down to. Fifteen shillings for a bit of cold meat and pastry, with a supply of wine cut off so soon as the after-dinner proceedings commenced, sounds high after all you get for a guinea at Willis', from whitebait to ices and wines of all kinds so long as you choose to call for them. But then at Lynn possibly the guests paid for their seats as well as their entertainment.

THE MIDLAND FARMERS' CLUB.

THE LABOURERS' HOME.

At a meeting held at the Royal Hotel, Birmingham, a paper on "The Agricultural Labourer, with special reference to Cottage Accommodation and Education" was read by the Rev. W. S. Miller, J.P., of Radway; Mr. Bowen Jones, the President, in the chair.

Mr. MILLER said he wished he could go into the subject with more enthusiasm than recent circumstances allowed him to do. The hearty goodwill and sympathy with which he used to regard the labourers as a class had sustained a very rude shock. During the last few months the labourer's character had sunk very much in his estimation, and he was sorry to add that in his judgment the labourer's prospects had very much deteriorated. There was no one in the rural districts who could not, within his own knowledge and his own village, point out the difference which existed in the condition of agricultural labourers residing in the same place and receiving the same wages. This difference was to be met with in all parts of the country, and was apparent upon a cursory glance. The reasons for the dissimilarity were to be found—first, in the difference in the home circumstances of the people; and, secondly, in the education they received. Amongst home circumstances the nature of the cottage accommodation was a prominent feature; there were many circumstances under which want of proper accommodation would suffice to produce the evils which they all had noticed. A bad cottage would go far to produce a bad home; at least it would hasten the work where there were other causes tending to that result. Bad cottages would more often produce self-neglect than be themselves the offspring of self-neglect. A man who could take no pride or pleasure in his home soon became careless of himself. Bad cottages not only deprived a man of spirit and energy, by making his home uncomfortable, but they affected his physical powers. They meant bad air; bad air meant reduced strength; reduced strength meant susceptibility to disease, disease entailing loss of work and money. For this state of things the cottage-factor was most to blame. By "cottage-factor" he meant the man who bought or leased a piece of ground and proceeded to build as many cottages on it as it would hold, often without garden, back accommodation, drain, cesspool, or any provision for emptying slops, which had to be thrown through the door into the road; without any ventilation, and without any pump or well—so many foci of fever and immorality. He did not so much wonder at the badness of morals as at the number who kept themselves pure. When father, mother, girls, boys, and babes were all crowded into one sleeping-room, how could habits of decency be maintained? But bad cottage accommodation was directly due to the people themselves; indirectly, to the law of settlement, under which many proprietors evicted the cottagers, and drove them to seek shelter in adjoining parishes. Of late years landowners had found out that they suffered for the sins of their predecessors, and were doing much to remedy the evil; but years must elapse before it was rooted out. When, however, proper accommodation was supplied, it was difficult to get the people to use it; they would bring in lodgers, and if that was stopped they herded together, and said it was too cold to use so many rooms. In this respect the tone of morality wanted raising; but he did not see how it was to be raised, at least yet. He believed the present movement had rendered the attaching of cottages to farms almost a necessity in the future. It was almost a necessity that the master should have a greater hold over his men

than paying them wages; if he could control, not only the places, but the homes of his men, he would be in a position to deal more satisfactorily with them. It would not be so well for the man; but he did think it would be needful for the master. As regarded education, he was not at all afraid of the labourers being taught too much, provided they were taught well, that was to say, made to know thoroughly what they knew at all. There was a fear of over educating the labouring class, which he shared only to a certain point. His fear was lest they should be taught nothing, that was, lest, in the endeavour to teach them too many things, they were taught nothing well. His fears were increased by the system of examination and payment by results now so much in vogue. In theory, payment by results was admirable. It assumed that there should be no payment unless there was something to show for it. Nothing could be better in idea; in practice, how did it work? Because there was no payment unless there was something to show for it, and the amount of payment depended on how much there was to show, great attention was paid to all subjects of teaching which admitted of show, to the detriment of those which would not allow of being paraded before the eyes of the examining inspector. Geography, geometry, algebra, and mental arithmetic, were crammed into willing or unwilling minds, while their duty to God, to their neighbours, and to themselves, was neglected entirely, or made a subject of secondary consideration and importance, instead of, as it ought to be, the first. He was certain that such teaching in school subjects would have a disturbing effect on the mind and character, and that it required to be subdued and guided by the religious element. It was not his saying that "knowledge puffeth up;" it was drawn from a higher source than mere human observation and wisdom, and its truth was manifest to the meanest capacity. He had no doubt the restlessness and restiveness under restraint which marked the present time were the fruits of knowledge; nor did he hesitate to avow his thorough conviction that these were likely to increase under the school system sanctioned by the Legislature. He was thoroughly convinced that the more school teaching was given without the accompanying restraint of religious teaching the worse would be the results socially and politically, to say nothing of its effects on men's spiritual interests. What teaching should be given was, first, a right knowledge of a child's duty to God and to his neighbour; and then whatever could be added to this might be taught, so long as it was taught thoroughly. He would have a girl taught, first, her duty towards her God, which should form the chief part of every day's teaching; then, her duty towards her neighbour, beginning with her present duty to her father and mother, her brothers and sisters, and, prospectively, her duties as wife and mother; then the domestic duties of sewing, housework, and cooking, a knowledge of cooking being one of the most important parts of an agricultural labourer's wife's education. If the wife only had anything like a simple knowledge of cooking she might turn to advantage opportunities without number, which without it would be wasted and thrown away. He would have her learn to read in order to read the Bible, learn sums in order to control the house expenses, and to write as the only means of communicating with distant friends. Beyond this, he did not care about her learning anything. He had no objection to further knowledge, so that it did not interfere with more essential things; but he objected to her learning more if it would be to the detriment of essential things like

these. He would have a similar course for the husband. He thought there was much false sympathy expressed for the labourer, and for his inability to raise himself in the social scale. The labourer could better himself if he would make the necessary sacrifices. Of course he could not without self-restraint and rigid economy, any more than anyone else. It was said, "What can a man do with 12s. a week and four children?" But a man was not always burdened with four children, and he was not expected to live on 12s. a week. There was a period when he had no wife and no child; and a full-grown man might always earn more than 12s. a week if he set himself to earn more. If it were allowed that a labourer with a family could live on the ordinary rate of wages (and that must be allowed, because so many did it without any evidence of pinching, and with apparent comfort), it was evident that, without such hindrance, he could save something. It might be considered that twenty-five years of age was young enough for any man of prudence to marry. Then certainly for seven years previously a man might save 2s. a week out of his wages. That was £5 4s. a year, and in seven years it was £36 8s., to which had to be added compound interest in the savings' bank, bringing it up to about £50. The woman might have put by half as much as the man, so that they would start with £75, from which £15 must be deducted for furniture. This would leave £60. Now supposing from the time of their marriage nothing was added to this, yet, untouched, it would add to itself by way of interest. In about fifteen years it would have reached £120, so that by the time a man was forty years old he might have that sum. At sixty it would be £250, and that would buy the man a good annuity for the remainder of his life. Of course all this required self-denial and care, but these were necessary in any department of life. There was no reason why the labourer should not advance himself; and when he did not raise himself it was not from want of power, but want of will. When he degraded himself it was through sheer abuse of his opportunities.

Mr. BRAWN said the question of improved dwellings for the labouring classes was one of the deepest interest. No one could doubt that the possession of a good cottage, with a garden attached, would do much to elevate the condition of the labourer, by encouraging habits of thrift, and lessening the inducements for him to leave his native village. What they had to complain of in this respect was not so much the quality of the cottage building as the want of accommodation. The quality of the accommodation was not so objectionable where the landowners, or others interested in the land, were the owners of the cottages, as in other instances. It was urged that the labourers should rent their cottages direct from the owner of the land, but he could not see how such an arrangement could become universal. He would put a case to their urban friends. The wealthy manufacturer had his residence outside the town, and he had his carriage and his coachman. For the coachman he had a cottage at the lodge gates. But the master did not like his coachman, or the coachman did not like his master, but he liked the cottage. Was the coachman to leave his situation, and yet go on occupying his cottage? Would it be consistent in the farmers to come forward and say that the man ought to be allowed still to occupy the cottage? And yet it was precisely the same thing in the case of the agricultural labourer and his cottage occupation. Having, however, as he believed they must do, come to the conclusion that increased accommodation was necessary, they would do well to consider what were the principal impediments to the erection of good cottages. He could point at the present time to a certain estate upon which neither the present nor the late proprietor ever laid out the price of a single brick in repairs, and that was simply because they had only a life interest in it.

Mr. T. B. WRIGHT said he thought that Mr. Miller, in speaking of the necessity of labourers to save a certain amount of money before marriage, had overlooked the claims which pressed upon them. A number of instances could be found where servants, both young men and young women, were fulfilling their plain duty by contributing to the support of their aged parents, and in some cases so liberally was this done that but little was left for future purposes. With regard to education, the question was, how should it be extended in country districts? When the new Act was put in force in our villages the farmers and others would know a great deal more about its provisions than they did at present. Some compulsion

would be required if education were to become universal; and it was a matter for consideration whether the schools required would be supported mainly as heretofore, by the landowners, clergy, and a few others, or whether school rates will be levied, in which case he doubted whether the voluntary efforts would be continued. He agreed with Mr. Miller that whatever was taught in their village schools should be taught well; and he thought it would be a good thing if, in addition to the three R's, they would give the children a little of that practical knowledge which would be useful to them in after life. He would read an extract from the *Irish Farmers' Gazette*, in which it was said that "on the 31st of December last there were 165 ordinary national schools in which agriculture was systematically taught, and a vast number of others in which the outlines of the subjects are inculcated through the medium of books." It had often been said that the condition of the agricultural labourers in this country, and especially with respect to their dwellings, was a disgrace to a Christian nation; but he would venture to go further, and say that if Christian principles had permeated the nation such a state of things could not have existed. From all he had heard and read, he had come to the conclusion that matters were growing worse instead of better; that old cottages were allowed to fall into decay, and new ones were not provided. They were told that property had its duties as well as its rights, and this observation could not be too often repeated. The rights of property were enforced, and properly so, but at present there were no means of enforcing the performance of the duties of property. With respect to the other questions relating to the agricultural labourers, he repeated what he had said on a former occasion, that he thought a strike was a mistake, and that the advice given to labourers to emigrate was a mistake also. Bone and muscle were absolutely required, not only on our farms, but in many of our works and manufactories, and at the present time in a greater degree than at any former period. He did not agree with the recommendations that the labourers should emigrate on another ground, which was this, that Lord Derby, Lord Leicester, and others well qualified to form an opinion on the subject, had declared that the land of England was not half cultivated, a statement which he believed no farmer in that room would venture to impugn. Here, then, was work for a vast number of additional labourers; and, unless something were done to remedy the existing state of things, he thought very serious dangers would arise. He did not form his opinions from what was said by those who were called political agitators, but from some of the most able speakers and writers of the present day, as well as from his own observations and enquiries on subjects on which he had long felt a deep interest.

Mr. LOWE (Birmingham) said he believed that large numbers of the labourers had not received as much remuneration in coin as they were entitled to, but he also believed that many of them had received a fair amount for the labour they had performed, and that the farmers would endeavour to increase wages according to merit. He regretted that the labourers should be led by agitators who had no practical knowledge of agricultural pursuits, and some of whom seemed to entertain the idea that all men were entitled to receive the same rate of wages. A greater mistake than to suppose that all agricultural labourers should be paid alike could not be made. As to cottage accommodation, they all knew that it was ten times worse in the large towns than in the country. He hoped, however, the time would come when cottages would be placed, by Act of Parliament, under inspection, and that where they were unfit for human habitation they would be pulled down.

Mr. J. S. WRIGHT said that, having given the position of the agricultural labourer some consideration, he had come to the conclusion that the most oppressed and suffering class of the community was that which lived by the production of the food of the country, but he was opposed either to strikes or emigration. His friend, Mr. Lowe, had fallen into error when he stated that the agricultural labourers were asking for the same rate of wages to be paid to all. They only insisted on this in the case of able-bodied men. With regard to the cottage question, he admitted that there were bad cottages in Birmingham, but in the towns the artisans had a choice which the agricultural labourers were denied. In the country it was different, for there if a master turned a man out of his cottage the man could not, perhaps, find another within a

distance of ten miles. That left the man to a great extent in the position of a slave. If there was one thing the agricultural labourers had set their minds upon more than another it was that in future they should not be the tenants of their masters, but of the owners of their cottages. As to education, he would teach the agricultural labourer all he could, were it only a little of many things; he would teach him reading, writing, and arithmetic well; and it would also be quite possible to teach geography, and a few other branches of knowledge. He quite agreed with Mr. Miller, that if they were to improve the condition of the agricultural labourer they must also instruct him in religion. He (Mr. Wright) would, however, leave the schoolmaster to teach secular subjects, and leave religion to be taught by the clergy and ministers, or godly men and women. There were three things wanting to improve the condition of the agricultural labourer: first, habitations fit for human beings to dwell in; secondly, clothing sufficient to protect him from the inclement weather; and thirdly, sufficient food to enable him to do his work. These things the men had a right to expect, and they would not cease agitating until they obtained them.

Mr. G. F. MUNTZ supported the view that when a labourer left his employment upon a particular farm he must of necessity give up the occupation of any cottage upon that farm. He thought landlords were making a great mistake in building villa residences for their labourers. At present labourers' dwellings were either villas or miserable huts.

Mr. G. WISE in proposing a vote of thanks to Mr. Miller, expressed a general concurrence in what had been advanced in regard to the importance of cottage accommodation and religious instruction. He did not know what rent the labouring classes of Birmingham had to pay for their dwellings, but in his own village a labourer had a good cottage, consisting of two sitting-rooms, three bed-rooms, a pigsty, an oven, a hovel for his wood and coal, a boiler, and a good garden, for the sum of 1s. 6d. a week. There were many reasons why the agricultural labourer did not rise, and the beer-house and bad company would not improve his condition, no matter what his wages might be. He thought people in the country knew more about the farm labourer than Mr. J. S. Wright could possibly do. He believed the farmers would give such wages as the men were fairly entitled to, but they would not submit to the dictation of agitators who were acting, not with the view of bettering the condition of the agricultural labourer, but of themselves. He hoped the labourers would be led to

perceive that their real friends were the owners and occupiers of the soil.

Mr. MASFEN seconded the motion. He said the farmers did not object to the education of the agricultural labourer's children, but what they were opposed to was the kind of education given them. He did not rise with the idea of saying anything which was likely to create ill-feeling upon the matter, but he would ask his urban friends before they distilled their philanthropy into the country villages whether it would not be better for them to scrutinise the dwellings of the artisans who lived in large towns where the per-centage of misery was greater, notwithstanding the fact that higher wages were earned.

Mr. T. B. WRIGHT said, in order to give a practical direction to the discussion, he would propose "That in the opinion of this meeting it is absolutely necessary that the question of the condition of the agricultural labourer with respect to cottage accommodation should receive the consideration of the Legislature, with the view of ensuring the adoption of such measures as shall lead to the general improvement of such accommodation."

The motion was not seconded.

The PRESIDENT said he agreed with much that had been advanced in Mr. Miller's paper. No doubt good cottage accommodation was a great desideratum with the agricultural labourer, and there was very little doubt that in many districts a deficiency existed. He believed, however, with Mr. Miller, that a good cottage was not sufficient in itself to make the agricultural labourer a happy, contented, and prosperous man. He thought, with him, that a man's success in life must in a great measure depend upon himself, whether he was an agricultural labourer, farmer, or belonged to any other class of the community. From his own experience he could say that cottage accommodation was better on large estates than on those of a small area, but he entirely agreed with previous speakers that the urban population were far worse off, as a rule, than the rural with regard to cottages. He thought the criticism to which the farmers had been subjected during the recent agitation had been advantageous both to the occupiers of the land and the labourers, for it had shown that instead of the latter being in a state of semi-starvation, as had been alleged, he was in very many instances living in comparative comfort, and certainly with greater comfort so far as regarded his work than the mechanic in the towns.

The vote of thanks was passed, and the proceedings terminated.

THE CIDER QUESTION.

At a meeting of the Devonshire Chamber of Agriculture in Exeter, Mr. VENN brought the "Master and Servant (wages) Bill" before the meeting. It was a serious subject for their consideration. The gist of the bill was in this clause, that after the 1st January next, the whole of the wages of any workman should be paid to him in coin of the realm, without any deduction ("except as hereinafter provided"); and without any condition as to the spending thereof or any part thereof. The master might make deductions for any amount paid for the education of children, or board and lodging of servants in school fees for children, or any agreed amount paid for the house, or any fine which but for the provisions of this Act might have been deducted; or any money advanced by the master to the workman; or any money due for rent of cottage; or any sum paid for medicine or medical attendance; or for workman's tools; or corn or hay supplied for the workman's animals; or for victuals dressed and consumed in the employer's house, provided the charge for those things did not exceed their real value. But what he wished to particularly call attention to was the fact that for a first offence against this Act, the penalty on the employer would be £10, for the second £50, and for subsequent offences, £100, to be levied on summary conviction before the magistrates. The master was also made liable for any offence of the kind committed by his agent, provided he could not prove that he had taken steps to prevent it. The bill also provided that wages should be paid weekly, and that in the case of contract work not finished, at least 75 per cent. of the amount due should be paid weekly. The bill would prevent their giving labourers a daily quantity

of cider. After the bill became law, the labourer, if he wanted cider, would have to keep a cask of his own in his house, or would have to go to the public-house for it, both of which would be temptation to drunkenness. But the labourers had now numerous counsellors, and it would be for the Chamber to consider how it affected the farmer, and he should be sorry if the consideration of the bill resolved itself into the question of cider or no cider. The real question was whether contracts made between man and man should be prevented by penalties applied solely to one party to the agreement. In the future, if he allowed a labourer's donkey to run in his errish in return for extra help at harvest, the labourer or anybody else might run to the Inspector of Factories and get him (the speaker) summoned before the magistrates. There were many similar cases in which the farmer might get himself clutched by the penal clauses of this bill. There were reasons why there should be give-and-take agreements of the kind he referred to, for there were many things on a farm which a labourer wanted, which were of more value to him than they would be to be turned into cash. Thus in the apple season it was very common for the labourer to get apples free for dumplings, and so with other produce. But the bill, if passed, would put an end to that kind of arrangement. The penal clauses were devised in order to protect the labourer against the cupidity of his master. But the labourer was a pretty shrewd hand at making a bargain, and it was a bad compliment to the labourer to say that because he was not skilled in the three "r's," he was to be put down in the category of factory children. It was surprising that people whose maxims were for the principle of

freedom of contract, should so depart from their own teaching, and should advocate the principle of compulsion with one-sided penalties. He thought the Chamber should oppose the bill, or its penal clauses, or move the Central Chamber in that direction.

Mr. DAW said that the bill reminded him of one of ancient times, for it was evidently drawn with an eye to factory men, and the case of the agricultural labourer was not originally contemplated in it. The old Act he spoke of was one prohibiting the importation of diseased horned cattle, and a clause was slipped in that if an attorney did something he was to be transported. So the agricultural labourer was slipped into this bill. He had only glanced at the bill since coming into the Hall, but on looking at it he felt like Lord Dundreary—it was a thing no fellow could understand. As far as he could see it was a bill to protect the agricultural labourer when he did not want protection. In the old free trade days the Dorsetshire labourers came together and declared they were "protected," but they were starved, and if the bill passed, the agricultural labourers of Devonshire would have the same cause of complaint. They could judge of it by their own cases. His head man was allowed corn, potatoes, and turnips, and others milk for children. Of course those things must be allowed no more after the bill passed. The labourers did not need protection. They were getting scarcer; their recent conduct showed that they were getting better off. Strikes were conclusive evidence of this, for they never found men strike when they were in the most abject condition; it was when they were beginning to make better wages that strikes came on. The proposed protection would affect very seriously the labourer's own welfare. He criticised the clause providing for the payment weekly of 75 per cent. of the wages on a contract job. They would require magistrates to assess the wages every week. Again, an inkeeper who was a farmer must not pay his labourer in his inn. Then the clause which prohibited justices who were also farmers—and every squire was a farmer—from adjudicating in such cases was most absurd. Not but he thought the bill was likely to pass, for nothing was too absurd to pass in the present time.

Mr. HOLLEY thought the Legislature could not do worse than legislate on the way in which private individuals should carry on their own affairs. Look at this bill. Three or four things in it pressed more heavily against the labourer than the farmer. There was the matter of fuel. The hedges of this county were full of roots, and the labourer was often given the fringe in return for hedging. This was worth a good deal to him, for what he did not consume himself he could sell. This he would lose. It was customary to pay servants in the house quarterly. If paid weekly, the money would go in small sums and nothing to show for it. Being paid quarterly, the man was able to lay the money out on shoes, &c. But the bill made weekly payments necessary. The giving of cider to the men also had its useful side; then there was the granting of potatoes to the labourer. All these things would be stopped by the bill. He thought they ought to petition against the bill, and moved accordingly.

Mr. G. TURNER denounced the bill as an absurdity. He had farmed fifty years and had always given cider. He had offered money instead, which the labourers invariably refused. He believed they were quite right in so doing. The cider—he allowed three pints a day to each man—moistened their crust of bread and cheese and made it palatable; it invigorated the men and made them cheerful at their work, and contented. At any rate his men would not give it up. He seconded the motion.

Mr. UPCOTT reminded the Chamber that the principle of the bill had long been established—the principle was that truck ought to be abolished. It had long been applied in manufacturing districts, and it was now deemed right to extend the principle to all classes of the community. If mutual arrangements could be made for the benefit of the labourer, that was all very well; but the Legislature assumed that pressure was put on the labourer to take things of his employer in lieu of wages. The Legislature would prefer that the labourer should judge for himself. As to the cider, he had met many men who had told him painfully and seriously that they would not take the cider unless it was obligatory on them to do so (No, no). He was pleased to hear that that was not always the case. The objection that the bill would be an interference between master and man was answered by the fact that it would only

be the extension of an existing principle to another class. To the objection that the labourer would be injured, he thought it fair to assume that he would not; for there would be no difficulty in paying him extra in money; and as to the cider he could buy that of his master if he wanted it. He believed there was no law to prevent that. (Mr. Fulford said that the farmer could not sell it by the cup.) At any rate Mr. Upcott maintained that it would be only common justice to pay the labourer in money.

Mr. DAW asked Mr. Upcott to give them a single instance with name of a labourer who had complained to him of receiving cider. He gave his labourers 12s. a week with potato ground, milk, and cider. He had asked them to take money instead of those things, but they would not.

Mr. UPCOTT repeated that he had met men in the highways and byways who had told him that they were compelled to take the cider against their will, but he could not give any names.

Mr. TROODE said that he had ten labourers who had been with him some 20 years, some living upwards of a mile from his house. It was impossible to get them all together at the same time of a morning to fill their firkins, so he offered to pay them cash instead of cider, but they refused, and he believed would have left him had he done it. To meet the difficulty he sold some of them cider—a half a hogshead each. That at three pints a day should have lasted three months. But the men drank it in the house with their families, and had in others to help them, so that they would be drunk together, and he had to stop that. There was only one man that consented to take money instead of cider, and he left some time ago, leaving his wife and child behind him. He believed that the condition of farm service was at present very much in favour of the labourer. He had seen two or three hams hanging up in their houses.

Mr. DAVY said that a member of the Southmolton Guardians had told him that he had offered his labourers 3s. a week instead of their perquisites. The men thought it over a day, and declined the offer. He believed the labourer would lose by exchanging his perquisites for money. But he was not sure that employers of labour would not be wise to pay in money only, for it would stop an outcry. Agitators went about saying that the wages were 9s. a week when it was really much higher. When a labourer came to the guardians he always stated his wages at the money amount, when it was really 3s. or 4s. higher by the perquisites. Therefore it would be wise to pay in cash only. But the bill, if passed, would in his opinion, inflict loss on the labourer, for many of those little profitable arrangements now made with his employer would be rendered illegal. He complained of public-houses being too numerous in the rural districts, and thought magistrates should be very cautious how they increased the number of those houses which were a temptation to the labourer.

Mr. WHIPPLE had not read the bill, and from what Mr. Daw had said, thought its details were very defective, but he thought the principle of the bill was correct. He thought it injudicious not to pay labourers in cash, and that it would ultimately be for the benefit of the labourer to be paid in cash and not in kind. He objected to the principle of paying in kind, and should like to see the practice abolished. He thought as a body of farmers they should be exceedingly cautious in the opinion they expressed on the bill, though he by no means meant that he approved of its details.

Mr. TURNER said that a neighbour of his had offered his men 14s. a week, but told them that if they took a potato or turnip he should have them up for it. The men said that they would rather stay as they were.

Lord FORTESCUE, the President, said his impression was—not so much for the protection of the labourer from oppression, but from very considerable temptation to excess in drink—that there was a great deal to be said on behalf of the bill. Many years ago the foreman of a large manufactory said that he and his master encouraged drunkenness in the men, because if they saved money they would be unmanageable. The principle seemed to be to keep the men in debt, and render them more amenable. Anything more demoralizing or unsatisfactory could not be. That was many years ago. The evil was very far from general; but he could conceive circumstances where it might be desired to permit or encourage drunkenness by the truck system. This was not, however, a moment when labourers of any sort were in danger of much oppression. The

simple law of supply and demand gave them now the "call" against the employer. England was doing more business than she ever did before, and the demand for labour in any particular branch of industry affected the rate of labour in all directions, and told on the general labour market. With respect to this particular bill, he did not know what it was when first prepared, but it had passed through a select committee, and it had been turned out, as he thought, in an unworkmanlike manner. Some of the clauses were unsatisfactory and obscurely worded. A sanitary report had informed them that agricultural labourers had experienced difficulty in getting milk for their children, which was a very injurious deprivation. But this bill would render it illegal for farmers to supply milk to his labourers in place of wages. They would have to fetch it elsewhere, perhaps at a great distance. The drawers of Acts of Parliament seemed not to take into consideration the elements of time and distance; but when persons had to go a great distance to fetch an article, the distance itself became prohibitory. He wished that the labourers would accept money instead of cider, but he was satisfied that the greater portion of the labourers preferred the cider, and in the present state of the labour market it might not be wise to refuse to supply cider—a practice which involved no sacrifice of principle, of honour, or of honesty. His lordship could not, however, help contrasting the position of this bill with that of far more important measures. It had already come back from a select committee, and he could not but feel that the Legislature might well occupy itself upon matters more urgently requiring legislation. In conclusion, his lordship thought the Chamber should not express an opinion on the abstract policy of legislating on the truck system, but should say that in the present position of the labour market it did not think that much practical oppression would be likely to befall the labourers in deferring this legislation till matters of far more urgent importance were disposed of.

Mr. HAMLYN supported the motion.

Mr. WARD pointed out the difficulties there would be in carrying the proposed law into effect amongst the labourers on the numerous cider-growing estates in the county. The men must and would have the cider. It seemed to him that the protection offered to the labourers in the bill was offered to them as if they were in swaddling clothes. It was a pack of nonsense. This was not the time for legislation of the kind. What they had on the farm was a different matter from the truck system in the manufacturing districts. The farmer supplied the labourer with produce off the farm for less than its worth. A labourer of his lived near his house, and had a garden, potatoes, corn, milk, of which he (Mr. Ward) kept no account. There was a great outcry against cider, but he thought it was a more wholesome beverage than that adulterated tea which they had heard of, which was sold to labourers by some dealers.

Mr. FULFORD supported the motion, stating that the fact was the agricultural labourers wished to have their cider.

Mr. UPCOTT said that they must not forget the selfishness of the men who had the cider—their wives and children had no share in it.

The motion was carried.

On the motion of Mr. DAW, seconded by Mr. HOLLEY, it was resolved to prepare a petition to Parliament against the Bill.

Mr. FREDK. CLAPP expressed a hope that it would not be construed into an expression of the approval of the Chamber of the truck system.

The PRESIDENT said that the resolution kept the Chamber clear of that.

Mr. VENN said that if the penal clauses had not been in the bill, he did not know that he should have moved in the matter.

THE ROYAL JERSEY AGRICULTURAL SOCIETY.—The first show for the season comprised upwards of 300 entries of stock. The cattle classes were well filled, and the competition, in some cases, closely contested. The growing demand for Jersey cattle has

wonderfully enhanced their value, as one heifer, a two years' old, bred by Mr. C. P. Le Cornu of Trinity Manor, the president of the Society, was sold to an American for 100 gs. This is the highest price known to have been paid for a single animal in these islands. Another was purchased for the same American dairy, at 70 sovs., and others changed hands at figures but very little under this price. The 100 gs. heifer, Blue Bell, is a light-brown, self-coloured animal, with black points, beautifully marked, very fine in the bone, and showing a high standard of quality. By connoisseurs she is considered as possessing the perfect marks and points for a first-class dairy-cow, and answers to the description given by the French author Gurnon, in his treatise on cattle. Blue Bell is registered in the Jersey *Herd Book*, with an excellent pedigree, being descended from several generations of prize-winners.

THE BATH AND WEST OF ENGLAND SOCIETY'S MEETING.—Mr. H. N. Edwards took the first prize for Hereford bull calves at Dorchester, Mr. Warren Evans having withdrawn his entry.

THE HORSE-WHIPPING CASE.—At the Banbury Police Court, before the Rev. C. F. Wyatt, and a full bench, Mr. Charles Garratt, farmer, of Todmarton, near Banbury, was charged under the Trades' Union Act with having horsewhipped Isaac Bodfish, a labourer, to coerce him not to join the Warwickshire Labourers' Union, on the 29th of April last. Mr. Overell, Leamington, prosecuted; Mr. Stockton, Banbury, defended. The complainant's evidence was to the effect that the defendant was angry with him because of his advocating the Union, and accused him of making mischief in the village, as all the men but himself were satisfied. The complainant went to see him on the following Saturday night, but he denied then making use of any insulting language. The next day, while he was drilling, the defendant came to him and struck him a number of blows with a horse-whip. He ran away, and defendant jumped upon his horse, rode after him for a distance of about 40 yards, and continued the beating. The defendant struck over a hundred blows, and the medical evidence showed that a day or two after the assault his head was much discoloured. There were ten wales, any one of which would have been sufficient to have drawn blood if Bodfish had not had his clothes on. It was elicited that the defendant, through Mr. Norris, had accepted £4 in settlement of the case, but had subsequently, on being incited by the Labourers' Union and others to prosecute, returned the money and instituted criminal proceedings against the defendant. Mr. Stockton, for the defence, contended that it had not been proved, as alleged in the summons, that the thrashing was to coerce the defendant not to belong to the Union, for it was not even shown either of them was aware of the existence of such an association. He also argued that the settlement affected was a fair one, and that the assault was committed in consequence of insulting language used by the complainant on the Saturday night before the assault. Several witnesses were called to prove what complainant stated he had said to the defendant, and that it was in consequence of this the defendant had horsewhipped Bodfish. It was also shown the plaintiff had said shortly after the assault that he was quite well and satisfied with the arrangement. The magistrates retired, and consulted in private for 20 minutes. On returning into court, the chairman said the Bench were unanimously of opinion that the charge set forth in the summons had not been made out, inasmuch as there had not been any satisfactory evidence adduced to prove that defendant made any attempt to coerce Bodfish not to belong to the Union. But, independent of this point, the case had previously been compromised by the complainant accepting £4 before it was brought into that court. The prosecution exonerated Mr. Norris, the magistrate, from blame.

CIRENCESTER CHAMBER OF AGRICULTURE.

TENANT-RIGHT.

At the adjourned discussion on Tenant-Right the President, Sir Michael Hicks Beach, Bart., M.P., in the chair,

Mr. SNOWSELL read as follows: In reintroducing this subject, I beg to say that if I did not in the paper read before you at our last meeting make myself perfectly clear, it was my misfortune and not my fault; and I must ask this meeting to bear with me if I answer Mr. Ellett and Sir Michael rather at length, for by having this subject exhaustively discussed from both a landlords' and a tenants' point of view we shall be able to judge as to the justness of each: therefore I will endeavour to take it out of the mist in which, if Mr. Ellett will allow me to say, special pleading rather than argument has invested it. Mr. Ellett said that the greater portion of my paper "appeared to have reference to the relations between landlord and tenant, taking the view that the tenant is placed in a position in which he wants additional security; that owing to that want of additional security he is unable to invest so much money in the land that he otherwise would; and that in consequence the productive powers of the land are not fully developed." That is what I meant, and what I wish most strongly to express now. And I will put it to every tenant-farmer whether such is not the case? Mr. Ellett, continuing, said: "That I understand to be, in short, that branch of Mr. Snowsell's case. To that part I confess I listened with the greatest care throughout, being most anxious to obtain, if I could, a tenant-farmers' view of the question—of the security he wants; but after listening carefully I could not even then find out what was asked for." I find on looking over my paper the words, "How are we to seek a remedy? Our worthy Secretary on a previous occasion advised the agricultural interest not to rush to Parliament for a crutch on every occasion, but to stand on its own legs. Is this not a question that must be settled by Parliament and Parliament alone, when it appears that not more than one-third of the landowners have a voice beyond their own life?" Mr. Ellett, continuing, said: "Mr. Snowsell complains that at the end of a lease the landlord takes possession of the farm. Surely, at the end of a tenancy, upon what principle can it be advocated that he has not a right to resume possession if he pleases?" I beg most distinctly to say that if my paper implied that as tenant-farmers we object to our landlords resuming possession of their land after the tenancy has expired, it has failed most woefully to convey what I wished. My meaning was that if a tenant had laid out large sums in draining, building, &c., so that by it the value of the estate has been increased, he should be allowed what was just and right. My objection was not that landlords should be prevented from resuming possession of their land, but that I strongly objected to landlords taking possession of what in common honesty cannot be called theirs. In answer to A Voice, "Yes, but he must not take the tenant's capital," Mr. Ellett remarked: "I have already said compensatory clauses exist in all properly-drawn agreements. It has grown into a custom—compensatory clauses for unexhausted improvements." There is nothing like coming to the point; the time is gone by for mincing matters; therefore I will ask all tenant-farmers here present who have such compensating clauses in their agreements to hold up their hands. [No hands were held up.] So much for that argument. What is the use of properly-drawn agreements if they are only kept to be looked at (as a proof of what should be), and not brought into general use?—it only misleads. Before proceeding further, I beg to call Sir Michael's attention to these words uttered by him at our last meeting, "Do agreements generally between landlord and tenant contain provisions to recoup the tenant? If they do, there is no need of legislation; if, owing to the fault of the landlord, the tenant cannot obtain such protection by agreement, then I for one am not prepared to object to legislation. I think there can be no more striking proof than the present that such is wanted." As to Mr. Ellett's argument, "If you want something more, there is nothing more except the power to say

that the land is your own to remain upon, and not your landlord's, that a distinction cannot be drawn, and that asking for security in that sense you are asking for what is unreasonable; and Mr. Snowsell is the best witness to show that he does not want that, because he says he wishes for such representatives in Parliament as our worthy President—men associated with the soil, taking an interest in it, and living upon it." As tenant-farmers, we wish to be represented in Parliament by men who do take an interest in the land, whether landowners or not, for the reason that, being acquainted with agriculture, they must see, in taking a broad view of the case, the necessity there is for giving compensation for all unexhausted improvements. To talk about the tenant-farmers wanting to take possession of the land, is all moonshine. Is Mr. Ellett in earnest in saying that a distinction cannot be drawn between asking for the "permanent possession" of the land, and the security for payment for all unexhausted improvements? If that is the decision the landowning interest have arrived at, I certainly must withdraw my objection to be represented in Parliament by the extreme Radicals, and say, the sooner they represent us the better it will be for the agricultural interest. Can it be so? Surley there are ways and means in which to recompense the tenant without injuring the just rights of the landlord. If, as Mr. Ellett stated, that by the 14 and 15 Victoria the tenant is allowed by valuation for any building, engine, and machinery, even if permanently fixed in the soil, why not add—any draining, grubbing, or any permanent addition he may add to the value of the land, shall be allowed by the same statute, by fair valuation, even if done without the consent of the landlord, but not in opposition to him? Do I understand Mr. Ellett aright, when he says, "it is a great hardship that after the tenant has spent a large amount of capital on his farm, in the shape of buildings, machinery, &c., that unless he expressly protected himself, that capital should be forfeited to the benefit of the landlord," that such is not the case? If it is as I understand Mr. Ellett, we have all more than I advocate—as regards buildings and machinery, but not draining, &c.—for I wish it to be thoroughly understood that I only advocate to be repaid for such improvements that shall add to the permanent value of the land. Mr. Ellett also stated that "in Ireland the position of the landlord is converted from being the real owner of the land into that of being the owner of the rent charge." If such is the fact, I will ask him this question: Is the value of land in Ireland deteriorated in value or not? because if the landlords of Ireland took that view of the case, it must certainly have a great influence on its value. Is such the case? On the contrary I find that land is being bought up at 30, 40, and even in some cases at 50 years' purchase. So that those who are the best able to judge of its bearing, refute that argument not by words, but by deeds. Mr. Ellett asks if we can get any higher security than that by contract. I must say very few men know better than Mr. Ellett that the tenant is not in a position to contract with his landlord; from the keen competition for farms, the landlord, or his agent, is fully aware that he can submit what terms he thinks proper, for if one does not take it another will. We have not, as in America, other lands to fall back upon, so as to absorb all who wish to be farmers, the result being, as I endeavoured to explain in my paper, no profit for the farmer, and the lowest possible wages to the labourer. Sir Michael, in discussing this subject, said, "In the first place is it or is it not legislation which, where the tenant has made permanent improvements, such as buildings or drainage upon the land without the consent of his landlord, shall entitle that tenant to be reimbursed for that expenditure? Because it would require very little argument indeed to show that such a law is by no means needed by large and independent tenants such as we see in this county." I must, with all due deference to Sir Michael, beg to differ from him on this point, and to say that I find from experience the

larger the holding the more dependent are such on their landlords—for the reason that there is more capital at stake—especially with only a year-to-year tenancy. Should not laws be made for the weak in preference to the strong? Sir Michael, continuing, said, “I do not think it is the tenant’s business to erect buildings and drain land. I have always to the best of my power, and other landlords have done at least as much as I have—I have endeavoured to do for my tenants what they require upon these points. I charge them, with their perfect consent, a proper and fair rate of interest upon the money I have so laid out.” If we all rented under such landlords as Sir Michael, and others I could name, there would have been no need for asking for an alteration. If all landlords would of themselves make the improvements which the tenant might want for the purpose of the farm, and without which it cannot be profitably occupied, on being paid a fair per-centage, also a fair clause for unexhausted improvements arising from a liberal use of artificial manures and feeding stuffs, &c., there would be an end to the matter, but generally speaking will our landlords? can they? or do they do so? Sir Michael, continuing, said, “If a tenant does spend his money upon improvements of that kind upon another man’s property without any agreement, I can only say I think he does an extremely foolish act, and one which there is no obligation upon him to commit.” I believe Sir Michael acknowledges that landlords and tenants’ interests are identical; that being so, what objection can the landlord have to recoup the tenant for his outlay, provided in all cases it adds to the permanent value of the land? Sir Michael, continuing, said, “Now I come to the clauses providing for good farming by the tenant, protecting the landlord against the tenant. With regard to this Mr. Snowsell has remarked—and I think Mr. Edmonds added, that to dictate to a tenant in what course he should crop his farm is to place a material bar to the proper cultivation of the land. Well, that I perfectly agree with if all tenants were good farmers; but we must remember in these things that just as it is necessary to bind a landlord to compensate his tenant for unexhausted improvements, so it is necessary to bind a farmer to farm his land properly.” Do such agreements make farmers farm their land properly? I must emphatically say they do not, and I believe it is generally acknowledged that such is the fact. To prove to demonstration that such is the case, I can only say that I have seen on riding across country after the hounds anything but good farming on Sir Michael’s own estate. Allow me to call your attention to that part of my paper where I stated that tenant-farmers “would be only too willing to make use of all the advantages that practice and science have placed at their disposal, if we had sufficient protection for what we consider our just rights; but those rights to be just must be shown to be for the benefit of the landowner as well as the tenant. If we receive compensation for all unexhausted improvements, we must be prepared to submit on our part that the landowner shall have a right to all dilapidations, not only on buildings, &c., but on the improper cultivation of the land; that the good farmer should receive compensation according to his merits, and the bad farmer should pay a penalty according to his deserts.” Could anything be clearer or fairer than that? Could you find a better illustration of the want of a Tenant-Right Act than that supplied by Sir Michael in his objection to leases? “All my tenants are yearly tenants. I have always objected to leases, and I shall always continue to do so as far as I know. It seems to me that the lease is objectionable to the landlord, because although he may have every confidence in the person whom he takes as tenant, he cannot tell who may be his executors after his death; and he may find himself for a considerable period of years in the position of having for a tenant executors who may continue the farm on a very different basis to what the tenant would have done.” Let us consider for a moment the position and feelings of a tenant on his death-bed, who has invested every penny he possessed on his farm under a yearly tenancy, well knowing that his landlord objected to the farm being continued by the widow after his death, for the well-being of his family, what becomes of that man’s capital—confiscated to his landlord! Is it to be wondered at that land is only kept going from hand to mouth? Reverse this and how changed would be the aspect, how different would such a tenant’s feelings be when he was sure that his family would have their just rights!” Sir Michael, continuing, said, “Then

I don’t think the lease is a good thing for the tenant. There’s apt to be a sort of feeling when the lease approaches its termination that the tenant may be evicted, and he is not inclined to spend so much money upon the farm. And there is a feeling on the part of the landlord that he may take the opportunity of raising his rent and the fear of the tenant lest he should do it.” Are we to understand that those tenants who are under a yearly tenancy have a certain immunity from a rise of rent? I think the experience of very many tenants tells them such is not the case. Is not that feeling which Sir Michael has described, generally speaking, always uppermost in a tenant’s mind in relation to all his doings that may add to the improvement of his occupation? Would that be the case if we had a fair and just Tenant-Right Act? Can any tenant, under the present tenure of land, justify himself to his family by keeping his occupation up to the highest state of cultivation, well knowing that the higher the state of fertility at the time the tenancy expires, the higher in all probability will be the rise of rent if he takes on again? For if he does not, such extra capital is forfeited to his landlord. And the cleaner he leaves his farm the less he will receive for valuation; the turnip-land might have cost him on entering, if the land was very much out of condition, five or six ploughs, &c., whereby if he leaves it clean, he is only allowed for one plough, or at the outside two, as it would not require more. It is not only the law, but the customs of agriculture—at least in this county—to put the largest possible premium on bad farming. Would not that man be a simpleton, or worse, who kept improving his farm to the end? Lord Leicester when addressing the Norwich Chamber of Agriculture a few weeks back, said “My object in the first clause was, if possible, to grant the lease in perpetuity, so that at the end of the sixteen years the tenant might renew. Since I came to the estate thirty years ago, not a single tenant has left it. I quite agree as to the superiority of a lease over a two years’ notice to quit with ample compensation; for I cannot conceive that any compensation would be equivalent to the removal of a man from his home. To me the country would not be worth living in if the associations between me and my tenantry were removed.” How stands the tenant-farmer at the present moment? What with the landlords coming down upon him for more rent, rates and taxes increasing, and the labourer pushing him up for more wages, he begins to look about to find out how he can meet these extra demands made upon him. He sees, as all other trades have, that if he wishes to increase his profits he must invest more money in the land, so as to bring it into the highest state of fertility. When he reasonably asks that such extra unexhausted capital should be secured to him at the end of his tenancy, and not confiscated to his landlord, how is he met? He is told that by asking for that security he is asking for the “permanent possession” of the land. Therefore as far as the farmer is concerned the country must rest satisfied with spending the present enormous sums for that which, as I said before, under a different system and with a better understanding between landlord and tenant, can and should be grown at home. Are not landlords and their agents, generally speaking, more afraid of losing a *certain* influence over their tenantry if some such law was passed, than they are that their tenants would lay out large sums unnecessarily in draining, building, &c., for which they would be well aware they would not be allowed for without it added to the permanent value of the land? Gentlemen, if this subject is to be viewed by this chamber as only between landlord and tenant, it would then assume a different aspect. If Sir Michael will excuse me, I will say that few men know better than himself that if this question does not at the present time, it certainly will not be long before it must be studied as a national one. Would it not be wise on the part of the landed interest to take time by the forelock? and grant a fair and just concession to their tenants?—concession it is not, it is but a fair and just right. I am fully convinced from what I know of the feelings of tenant-farmers generally, and from what I can gather from other sources, that after the passing of the Ballot, this question, if not settled, will be made a political platform. I would not have troubled you with what I am about to say were I not convinced that such feelings have a great deal to do with the question, “Why are not the Chambers of Agriculture better represented by tenant-farmers?” Since I had the honour of reading my paper before this chamber, I have been told by several respectable farmers that if I was in want of a farm, no landlord in this neighbourhood would

accept me for a tenant. Such is not my view of the case, and to say the least, by entertaining such ideas, I consider it would be paying anything but respect to landlords generally. If this were so, would not these chambers become an insult to the common sense of the country? How are our landlords, or our representatives, to understand our views on agricultural questions, if we are afraid to discuss them for fear of consequences? I will add that in discussing this question, I have done so as far as I know how, in an honest and conscientious spirit. Gentlemen, let me call your attention again to those most true and memorable words uttered by Lord Derby, that "what was wanted from the landlords of England is much less that they should put a large amount of capital of their own on the soil, than that they should offer no obstacle to its being put on by the tenants, *security* being the first requisite;" and that "we do not get as yet one-half the produce out of the soil as we might if properly cultivated." Sir, I firmly believe you will never get the tenant-farmers of England as a body to lay out the large sums required so as to make the land yield its utmost to the benefit of the whole community under the present tenure of land. Grant us *security*, a security that shall be as fair for the tenant as the landlord, and in a marvellously short time you will cease to hear that great outcry which is now being uttered by all classes of society, from the peer to the peasant, that the land is not made to yield what it ought. I will sum up my remarks with the first question that appeared on my paper, "Is a Tenant-Right Act required by the tenant-farmers of England or not, and if not, why not?" You may call it security or payment for unexhausted improvements—that is the point I consider this meeting has to pass its opinion upon, and I hope the arguments against such will be as clear from mistiness as my own were in showing the want of that right.

The PRESIDENT said he thought it was his duty as chairman to endeavour to direct the discussion. Mr. Snowsell had referred to two matters, one of which—the Ballot—was entirely beyond the scope of the Chamber; and another, the ownership of land, was certainly not a part of the matter now before the meeting. He thought, therefore, he was justified in asking those who followed Mr. Snowsell not to refer to matters not within the scope of the discussion now before them.

Mr. BAZLEY said the question resolved itself to this, Should there be leases or should there not? When Mr. Snowsell was enabled to give such distinguished authority in favour of leases it would be superfluous for him to say a word about it. Even Sir Michael, though opposed to leases, was in favour of agreements (for his yearly tenancies), so that they really were reduced to this—Should it be a lease for one year or for longer? As regarded the duration of a lease, he certainly thought it should be sufficient to induce a man of capital to come on the ground and apply that capital to the ground; and there was another point, the lease should have a considerable amount of notice attached to it. Although the lease might have a definite time fixed to it, he submitted that two or three years before it expired the tenant had a right to ask if his landlord intended him to remain or not. Rentals were a fair measure of the conditions on which the land was rented, and if any alteration was made in these conditions it would naturally affect the amount of the rent. A lease when executed should be binding on the executors of both parties. How was it possible for a man to devote his energies and his capital to a farm when he knew that at his death it might pass from his children? Restrictions, as far as possible, should be limited to clauses for the four-course system towards the end of the term, leaving the tenant as free as possible to follow his own judgment and experience during the duration of the greater part of the lease. Still, the lottery of matrimony was hardly more hazardous than the lottery of choosing a tenant for a farm; the landlord was in a very hazardous position. Improvements, as Sir Michael had said, should be made as far as possible by the landlord, leaving the tenant to pay a fair rate of interest; but there must be a limit to the liability of the landlord to pay for improvements, for the tenant might wish to embark in speculation. For instance, if a tenant wished to enter upon beetroot-sugar making, was the landlord to provide all the extensive plant which would be necessary? It was not always that rents were raised on the termination of a lease. They were frequently renewed at the same rate, or even reduced. But there were many local circumstances which affected the matter. Look at the increased

number of competitors for farms, while the farms did not increase in like ratio—rather, there was a tendency towards diminishing in the number of farms by their becoming aggregated. This must naturally produce its effect. Then there might be local circumstances. There were persons who thought that the East Gloucestershire railway, when it became an accomplished fact, would result in the farmers being charged with additional rent. Mr. Snowsell said something about game. Now that he ventured to say was a matter of bargain also. If a farmer was expected to keep much game he could not pay the rent as he would otherwise be in the position to do. But if a landlord let a farm on a rent proportioned to a low stock of game, and then over-stocked the farm, that would be a deplorable thing. But the chief point of Mr. Snowsell's paper upon which he wished to remark was where he contrasted manufacture with agriculture. Mr. Snowsell's chief point there was concerning the rates: that agriculture was unfavourably situated as regarded rates. He would remind him that in towns the rates were very considerable indeed—higher than in the country places—and also that he would find that factories were assessed at a very much higher valuation than he probably had any idea of. It was not the manufacturer: it was the merchant. The merchant might be doing his hundreds of thousands where the manufacturer did his tens of thousands, yet the manufacturer paid heavily upon his large premises while the merchant had only two or three offices. If Mr. Snowsell were to transfer his capital to a manufactory, he would find that if he increased his premises he would have a district surveyor admiring the extension and speedily raising the assessment. Then Mr. Snowsell said that when wages were high, the manufacturer had only to raise the price of his goods. Well, they might raise the price of their goods—"You may call spirits from the vasty deep," but would they come when called?—Could they sell at those higher prices? Generally speaking an advance in goods preceded an advance in the price of labour. For whom should this Tenant-Right be, and how far should it extend? Was it to reach to a vested interest in the soil? It was held that the land was entrusted to them for the people. To a certain extent all property was entrusted to them for the people. But if the land was supposed to be held in trust for the people, why not houses? and if that should come to serious deliberation he thought the landlords could not do better than follow the example of Mr. Arkell, who talked of going to America. Mr. Ellett had made a most forcible distinction in Mr. Snowsell's paper—one part of it relating to the agreements between landlord and tenant, and the other to the more general bearings upon the whole body politic. As regarded the former he did not agree with him. He thought individual agreements could not everything that was wanted. There was one exception: when the landlords were not at liberty to make these exceptions. Manufacturers were very seldom troubled with landlords. They were their own landlords. If they could not pay for it they mortgaged it, and why shouldn't the farmer do the same? Then, again, in a trade people worked in partnership, but one never saw that in farming: and yet he could not mention a business which appeared to require a greater diversity of talent or of special knowledge, as of stock, of soil, of machinery, chemistry, &c. Notwithstanding Lord Derby's assurance, he ventured to think that there was not so much land in the market as there ought to be. It was stagnating and blocked up. He did venture to submit that the present application of entail to land had a tendency to cripple the application of capital to agriculture. If a man wished to perpetuate a family by land, let him do so; if his son wished to continue the practice, let him do so; it was a mistake which would bring its own punishment; but he submitted it was not to the benefit of the body politic that he was allowed to tie up land. He would read an amendment:

"That, in the opinion of this Chamber, the interests of agriculture will be best promoted by leaving landlords and tenants to make their own agreements; but in order to place all landowners at liberty in this respect, some modification of the laws of entail, and increased facilities for the transfer of land, are urgently required."

Mr. SNOWSELL read his original resolution:

"That in the opinion of this Chamber the present restrictions in farm leases and agreements fail to prevent the deterioration of land through bad management, at the same time no provisions exist in them which give due security to tenant for his capital; and that on account of the great

alterations which should now be made in the style of farming, through the introduction of machinery and the extensive use of artificial food and manures, leases and agreements should contain no restrictions as to croppings; but that in lieu thereof clauses should be introduced for reimbursing out-going tenants for unexhausted improvements of any and every kind, the landlord to claim damages from the tenant for all injury done to the farm by exhaustion or ill-cultivation. Moreover, this Chamber is of opinion that the adoption of these measures should be enforced by law."

Mr. W. EDMONDS would be prepared to second it if the last bit about enforcement by law was omitted.

Mr. ISAAC PITT seconded the resolution.

Mr. BAZLEY then formally proposed his amendment.

Mr. J. ARCHER thought that as to making an Act of Parliament between landlord and tenant, that would fall to the ground. It would create a law-suit in almost every lease. Two years' notice was necessary; and the next thing was that there should be security that the farmer should be bound to leave the farm in the same condition he took it. He had had to do with land for fifty years, and he thought that a law between landlords and tenants would be rather a slur to both parties. He thought there should be an alteration in the notice of lease. Six months' notice for a man to do his farm well was too short.

Mr. C. W. LAWRENCE said as far as he could make out from Mr. Snowsall's speeches, that gentleman based his argument for the necessity of legislation upon the subject of Tenant-Right on the three following grounds: The first was the precedent of the Act of Parliament lately passed as regarded Ireland; the second ground was, that the present laws of settlement and entail prevent the improvement of land; and the third ground was, that there was a reluctance of landlords to grant leases, or, if granted, to abandon restrictive conditions in them. With regard to the *first* point, he thought that Mr. Snowsall must have lost sight of the great distinction between Ireland and England. He did not wish to say anything against the Irish—they were a warm-hearted race; but perhaps, as Mr. Disraeli had said, the prevalence of a humid atmosphere and their contiguity to a melancholy ocean affected them. They certainly were not in the same position as the more fortunate inhabitants of this country. An important fact was lost sight of by Mr. Snowsall, that the farm holdings in this country were very different from those in Ireland. The Lord Lieutenant of Ireland had lately stated that there were no less than 317,457 holdings in Ireland under an annual value of £8. It was no doubt on account of this condition that the legislature interfered. Tenants holding an occupation above £50 a-year might contract themselves out of the operation of the Act. So that in Ireland the legislature practically left the matter of contract entirely in the hands of the landlord and tenant in holdings over £50. Certainly the majority of holdings in this country would be over that sum. Mr. Snowsall had also said that the Irish could buy their land by the aid of a loan from Government at 3 per cent., and yet that in England if money was required, and the tenant went to land or other societies he had to pay from 6½ to 7 per cent. There Mr. Snowsall was in error. The act simply provided this, that if a tenant bought his land he might borrow the money from the Government at 5 per cent. annually, which would in fact pay back the principal in 35 years. The land companies in England lend money at from 6½ to 7 per cent., and the loan is paid off in 25 years. Improvements effected by these loans, though technically called "permanent improvements," such as drainage, &c., are very different in point of permanence and security from the fee simple of the land. As regards the *second* point, namely the law of settlement and entail, he did not intend to enter into argument as to the policy of the system, although he was quite prepared to justify it. The legislature had conferred ample powers on persons who were called limited owners, viz., tenants for life, incumbents of livings, &c., to grant leases of land for agricultural purposes for a proper term of years to secure the due cultivation of the land and to protect the tenant. The Colleges of Oxford and Cambridge and other corporate bodies had similar powers, and therefore so far as the powers required for limited owners were concerned he could not see a necessity for legislative enactment. Mr. Ellett had referred to the Act of Parliament 14 and 15 Victoria, enabling a tenant to remove the buildings

at the expiration of his tenancy with the consent in writing of his landlord. He confessed himself that he did not attach much importance to that provision, because the tenant would not have the power unless the landlord gave his consent in writing for the improvements, and he thought that, independently of the Act, the tenant in nearly all cases before he made any improvements would as a matter of precaution obtain the landlord's consent, with a promise of an allowance. With regard to the *third* point, relating to the granting of leases, he had for some time past held a strong opinion which he had always expressed in this chamber. He thought the very best means to meet the question of Tenant-Right was by granting a lease, and a lease upon liberal terms. He had been acting for some of the colleges in Oxford for many years, and he had given this matter a most careful consideration, and he had endeavoured to frame a lease so as to get rid of all unnecessary restrictions. He had generally granted leases for 12 years, though he considered 16 years, if a man was going to spend money in improvements, a fair term. He left the matter of cultivation almost open until the last two years, when he prescribed the four-course system, so that the estate was to be handed over in that condition to the landlord. With regard to game, the leases granted by the colleges frequently reserved it to the landlords, but the tenants were practically allowed the privilege of killing it on the reasonable understanding that they would send a basket occasionally to the college table. He thought if a landlord reserved game, the tenant in fairness ought to be allowed to kill rabbits and ground-game, to a certain extent at all events, and that extent he would limit to ferreting the rabbits and coursing the hares. If a gun was used it might lead to dispute, if not between the landlord and tenant, possibly between the tenant and gamekeeper. Objections had been made by landowners to the grant of leases on the ground that it could not be foretold into whose hands the lease would fall in the case of the tenant's death. Well, they could not deal with death, there must always be an uncertainty or risk run by both parties. He thought that when a man came to a landowner and proposed to put a large sum of money into the land, the landowner ought to bear in mind that that man was employing capital intended for his wife and children, and that it would be hard if they did not get it returned. He advocated leases quite as much in the landlord's interest as the tenant's. Why should there be any difference between the letting of house property and of a farm? There was no objection made by landlords to the grant of leases of house property, and a tenant of it with the security of a lease for 21 years would generally pay a good rent and improve the building for the ultimate benefit of his landlord. The case would be the same with a farm. He entirely concurred with Mr. Snowsall's concluding remarks on introducing this subject, namely, "Let landowner, tenant, and labourer be united, so that they may with one accord say that, so far as regards themselves as a class, they are prepared to make the most of the land for the benefit of all, and at the same time, so far as lies in their power, they will uphold the glorious constitution of this country." Believing, however, that this result will be best attained by the influence of public opinion which will be matured by discussions in this and other like chambers, and that the interference of the legislature is not required, he begged to move the following amendment to Mr. Snowsall's resolution now before the Chamber, namely:

"That this Chamber considers that all restrictive conditions with regard to the cultivation of land should (except where essential for the landlord's protection) be omitted in farm lettings; and also that, where the tenant has not the security of a lease for the return of the capital employed by him in improvements, he should have proper compensation provisions for them inserted in his agreement of tenancy. This Chamber, however, considers that there is no necessity for any legislation at the present time between landlord and tenant in England on this matter."

Mr. J. ARCHER seconded the amendment.

Professor WRIGHTSON thought Tenant-Right and lease going together would be the best safeguard both for landlord and tenant. He really thought that any discussion as to how far the tenant was justified in asking to be reimbursed for his capital was out of the argument and waste of time, because it had been settled again and again. He agreed both with Mr. Snowsall's resolution and the report presented by the committee. But there was one point in which

he could agree with neither, namely, the settlement of the question of unexhausted improvements by valuers. He thought they must have a Royal Commission to inquire into and settle this question, or at least to clearly indicate the general path to be taken by valuers. As to the argument which one heard that it was impossible to value now—as for instance in the case of artificial manure—he did not think that objection was worth anything, because such a system was actually carried out at this day in Lincolnshire. Lincolnshire Tenant-Right was in the mouth of every one, and Tenant-Right was making its way more rapidly than some perhaps might imagine. He was rather inclined to support Mr. Snowsell's resolution because he thought that as a rule they should prefer to support a person who had taken the trouble to lay a paper before them; but still he thought it was six of one, and half a dozen of the other. The difficulty in valuing unexhausted improvements was the variation in the custom of different counties. And again, as to the case of a thrashing machine. It was valuable where it stood, but worth nothing if removed. It was like an oven worth a great deal to a man where it stood, but if they told the owner to carry it away it was not worth threepence. He would object (in the report) to the term of three years—it should rather mention no definite period. He objected to the three years being inserted. He asked if that alteration could be made, and the following addition made to it:

“That a petition for a Royal Commission to inquire into the question should be set on foot by the Chamber; and further, that these chambers of agriculture throughout the country should be invited to co-operate with them upon this matter.”

The Rev. J. CONSTABLE said it appeared to him they were wandering further and further from the point. The point was not whether they ought to farm well, but simply whether the present state of things was such that they could not do that, and whether the present condition of things was such as to require the interference of the legislature. On the other points there were all agreed upon, and therefore the only question was whether law was to interfere in a way that it did not interfere in any other trade; because here they asked whether the law should interfere with contract. Were they asking of Parliament to give them power to deal with land in any other way than with any other property? Now some speakers had almost tended to that—to make land an exception. It seemed to him that if rent was to be fixed by Act of Parliament, it was interfering with the liberty of the subject. The law of contract appeared to him to be one that they must consider carefully. He had puzzled himself to discern how the question could be met by the Legislature, he could not see how it could be met by Act of Parliament. He rather looked to the dissemination of those broad principles of knowledge—that knowledge which the Cirencester College of agriculture was engaged in propagating—he looked to this, to effect the required improvement. They must have educated intelligent men, and let these men have full scope in their dealing with the land. In fact, the system of Lincolnshire which had grown out of intelligence—out of custom—would gradually pervade the country. He knew a gentleman who was certain that if he had rented in Lincolnshire instead of in Scotland, he should have realised £2,000 in hard cash for the improvements he had made, and which he was obliged to leave behind him. With the understanding that the report of the committee in the paragraph he indicated meant in the absence of any special agreement, he was prepared to move it.

The Rev. T. MAURICE said Mr. Constable asks whether it was to be an absence of any special agreements. It was so understood at the meeting of the committee, as he would show from something which fell from a member present at it. Some one proposed “Any agreement to the contrary notwithstanding.” The committee rejected those words, and from that rejection he gathered that the committee meant in the absence of a special agreement.

Mr. SNOWSELL said there were at the committee meeting three against and two for the words mentioned by Mr. Maurice.

The Rev. J. CONSTABLE then read the report of the committee, with the addenda of words expressing the meaning as explained by Mr. Maurice more clearly.

The Rev. T. MAURICE on the general question would remark that if it was carried out to the full extent Mr. Snowsell seemed to wish they should be formed into a joint owner-

ship of property. Then again the title to ownership of land came from the employment of capital and labour upon it—a man then claimed it as his own, and it now seemed to be put forward that if they let another man employ his capital upon their land he became a joint-owner. He could not think that would be for the good of the country. With regard to what had been said about Ireland, he did not think Mr. Snowsell meant to put Tenant-Right on the same footing in England as Tenant-Right was understood to mean in Ireland. [Mr. SNOWSELL: No, I do not go so far as that.] The legislative influence in Ireland had been based upon considerations of high state policy. The history of the last 700 years in that country had been one of oppression and of the alienation of the natives from possession of the soil: and now in the interest of peace it was attempted to bring back the native owners, and to give them an interest in the soil. There was a wide distinction between that and anything that could be required to be done in England. He did not believe English tenants desired anything of the kind. He did not believe they would shoot their landlords if they did not get it.

Mr. ELLETT would endeavour to assist Mr. Constable to bring back the discussion to the narrow limits in which he humbly submitted the whole question laid. They really had been discussing a variety of matters, which no doubt were more or less dovetailed in with the question before them, but which did not directly bear upon the issue they had to determine. That issue, as he endeavoured to state at the last meeting, and would now repeat, was whether landlords and tenants were to be left to make their own bargains, or whether the legislature was to interfere; and if the latter, in what way the legislature was to interfere. Such interference might be in one of two ways. In the way suggested by the committee, which proposed what might be called a statutory agreement, which should apply where there was no agreement of a different character; or it might go the length that Mr. Snowsell suggested, and as he understood Mr. Wrightson suggested—go to the length of tying the hands of the parties, and say they should not make this or that kind of agreement. It seemed to him that that latter kind of legislation was what Mr. Snowsell's resolution distinctly led to, but he confidently believed that that was not the opinion of the Chamber upon that point—as to whether the farmers were the only people who were not to be trusted to go by themselves, but must go in leading-strings provided by the legislature, and one answer of the Chamber to that question had always been that they would rather be treated upon commercial principles. Taking that to be the opinion of the Chamber, it must seem that it could not favour Mr. Snowsell's resolution. All of Mr. Snowsell's resolution which the Chamber was prepared to adopt was contained in the report of the committee, and therefore he desired to second the resolution of Mr. Constable. The discussion had already reached some length, and he would therefore only allude to two observations which fell from Mr. Wrightson. The first as to valuers. There was no better method at present known; and they had this before them, that it had been actually adopted by the legislature in relation to improvements which did now come within the scope of legislation. It was for that reason, and because no better method was known, that the committee had made the recommendation they had. He did not understand Mr. Wrightson to be able to make any better suggestion. He understood him to feel the difficulty arising from the various customs prevalent, and unless these customs could be abolished, and some uniform basis could be formed, the present course must be followed. Of course if that point could be reached there might be no occasion to refer to valuers. Then the other point in the report which Mr. Wrightson objected to was as to leaving the law where it was with respect to buildings, and he objected that the right to removal if the landlord refused to pay by valuation was insufficient. It was merely the fault of the tenant himself if he did not secure for himself by contract a better compensation, if he thought the compensation provided by law insufficient. The report had also been objected to on account of the three years' limit as to allowances for manure, &c. Mr. Wrightson said there should be no limit. It seemed to him that there must be some reasonable limit, otherwise improvement might be made the subject of compensation, which had already been taken into consideration when the rent was fixed.

Major BATHURST said: I cannot help thinking that we

ought not only to look at this question as anxious that the tenant should not suffer injury, but also from a commercial point of view. Now, in all pecuniary matters, in investments of capital, one always looks to the risk run, and expects a return proportionate to that risk. The landlord's capital is land. If a law compels him to pay for want of skill on the part of the tenant, or for unforeseen expenses, of course he naturally would expect a higher rent; and it seems to me, if the law lays down a hard and fast line, it would be unjust to the landlord, because he might be required to find a large sum (and it is not every landlord who can find a large sum) at 4 or 5 per cent. interest, he runs a risk, and, on commercial principles, would require a higher rent to pay for his risk. American securities pay a high rate of interest when they pay, but many who have invested in them have had to wait for years for payment of interest—I have myself; and it seems to me that the same principle would apply to land when the landlord was left in perfect uncertainty as to what calls would be made upon him. Of course I cannot profess a practical knowledge, but at the same time one can take an ordinary commercial view of the thing, and I think it would be a great pity to lay down a hard and fast line, and to limit that confidence between landlord and tenant which exists in so many cases, and which confidence most tenants value more highly than any legal enactment.

Mr. LAWRENCE thought the report required some modification to show that they did not wish to interfere with the free right of contract.

The Rev. J. CONSTABLE read his resolution with the addenda which had been made.

That the recommendations of the Committee be adopted, with modifications, as follows:

1. By the expression "Tenant-Right," the Chamber means the right of tenants of farms to be compensated at the expiration of their tenancies for unexhausted improvements.

2. The Chamber is of opinion that in order to ensure the due cultivation of the soil, it is necessary to afford greater security for the capital invested in its cultivation, and that for this purpose the law needs amendment, so as to entitle outgoing tenants (not holding under written agreements) to compensation for unexhausted improvements, the amount of

such compensation to be ascertained and determined by two referees, or their umpire, in the usual way.

3. By "Unexhausted Improvements," are meant—

(1.) Drainage done with the consent of the landlord.

(2.) Artificial manures used and feeding stuffs consumed during the last three years of the tenancy.

(3.) Tillages and acts of husbandry of which the outgoing tenant shall not, in the opinion of the referees or umpire, have derived the full benefit.

4. With regard to buildings and fixed machinery, the Chamber is of opinion that the existing law, giving the tenant the right to remove or be paid for the same, is sufficient.

5. The Chamber is further of opinion that in any new enactment, giving outgoing tenants a legal right to compensation for unexhausted improvements, provision should be made for compensating the owner of the land in respect of dilapidations, including injury resulting from neglect to cultivate the land in a husband-like manner, such compensation to be also ascertained by valuation, at the expiration of the tenancy.

6. The Chamber consider that the present law, by which yearly tenancies can be determined by six months' notice, requires amendment with regard to tenancies of farms (say of 20 acres and upwards), as to which at least twelve months' notice ought to be required.

Mr. ELLETT seconded the resolution.

The PRESIDENT said it would be impossible for the legislature to interfere in contract. If such an enactment was made, it would be evaded daily. In the second place, it was not for the interest of the tenant that it should be so. He thought the committee had done wisely in not recommending that the tenant should only be able to make a certain agreement, but simply proposing to give the tenant by law that which he was getting now from the custom of many parts of England, and to compensate for unexhausted improvements.

Mr. I. PITT thought the law was not satisfactory if a man was compelled to remove his improvement, or to get no compensation.

Mr. LAWRENCE said it was generally the interest of the landlord to keep the improvement, so that it worked round.

The other amendments having been dropped, the President put the resolution as proposed by Mr. Constable, when it was carried, and the meeting broke up.

MORAYSHIRE FARMERS' CLUB.

THE POTATO.

At the quarterly meeting, Mr. ROBERT BRUCE, Newton of Struthers, the chairman, said that the subject for discussion was—"Considering the great breadth of potatoes annually planted in this county, what is the opinion of members as to the most suitable manure for the successful cultivation of this crop, having regard to the quality and cost per acre?"

Mr. YOOL (Coullartbank) read the following paper: The question which is set down for discussion this evening is rather a wide one, and it would take no inconsiderable time, as well as a very large amount of experience and practical experiment, to answer it satisfactorily. The manures suitable for one class of soils are not so suitable for others, differing in chemical composition, mechanical texture, and climate. Keeping these considerations in view, I shall not attempt to answer definitely the question as to the most suitable manure for the successful cultivation of the potato in the county, but will, with your leave, lay before you the results of some experiments carried on by me last season, which I consider to be amongst the most successful I have ever carried out, and which show fewer anomalies than most agricultural experiments. The experiments were instituted in the first place for the purpose of ascertaining the necessity or otherwise of applying potash salts to the potato crop, but, when arranging them for this purpose, I resolved to carry them somewhat farther, with the view of determining the action of ammonia and superphosphate of lime alone and in mixture, as well as farmyard dung, upon the crop. The soil on which the experiments were carried out consists of a good clay loam, very equal in quality, as the no-manure plots will show, and was only in moderate agricultural condition, the subsoil consisting

of light sandy loam—altogether very suitable for growing good crops of potatoes. The field has been under beans dunged in 1869, and wheat in 1870. Each of the experimental plots consisted of one-eighth of an acre. The drills were 27 inches wide, and the potatoes (regents) were planted at intervals of 10 inches in the drills. They were planted on 1st May, 1871. Plots 1 and 16 were dunged and manured exactly the same as the rest of the field. I may mention that in the following tabular statement I have calculated all the different quantities to the imperial acre, to avoid multiplicity of tables and confusion. The plots and manures used on them were arranged as follows: 1. 16 loads dung, 2 cwt. sulphate of ammonia, 3 cwt. dissolved coprolites, and 2 cwt. kainit per acre. 2. 16 loads dung per acre. 3. No manure. 4. 2 cwt. sulphate of ammonia, 4 cwt. dissolved coprolites, 2 cwt. kainit per acre. 5. 4 cwt. sulphate of ammonia, 4 cwt. dissolved coprolites per acre. 6. 4 cwt. dissolved coprolites and 4 cwt. kainit per acre. 7. No manure. 8. 4 cwt. sulphate of ammonia and 4 cwt. kainit per acre. 9. 2 cwt. sulphate of ammonia and 4 cwt. dissolved coprolites per acre. 10. 4 cwt. sulphate of ammonia per acre. 11. No manure. 12. 4 cwt. dissolved coprolites per acre. 13. 4 cwt. kainit per acre. 14. No manure. 15. 16 loads dung per acre. 16. 16 loads dung, 2 cwt. sulphate of ammonia, 3 cwt. dissolved coprolites, and 2 cwt. kainit per acre. The sulphate of ammonia contained 24 per cent. ammonia; the dissolved coprolites, 26 per cent. soluble, and 5 per cent. insoluble phosphates; and the potash salts, 24 per cent. sulphate of potash. The manures were sown in the drills, the potatoes planted, and the drills split in the usual way. The

after-cultivation consisted of hand and horse-hoeing, and, finally, earthing up; and the plots were lifted and weighed on the 2nd November. Before proceeding to state the final results, I may give you the notes made upon the different plots on the 16th June, when in a growing state: No. 1, well up, and looking fresh; No. 2, not nearly so far advanced as No. 1, but rather further advanced than the nothing plots; No. 3, of the same colour as No. 2 and nearly as far forward—darker than No. 1, but not nearly so far advanced or growthy looking; No. 4, further advanced, and of a rather paler green than No. 1; No. 5, robust looking, dark green stems, and nearly as far forward as No. 4; No. 6, pale green stems, and not so robust or forward as Nos. 4 and 5; No. 7, same as No. 3; No. 8, slightly further advanced than No. 7, and darkish green stems; No. 9, fully further advanced, but of much the same colour and appearance as No. 4, these plots, viz., 4 and 9, being much the furthest forward of the lot, and followed by No. 5; No. 10, about the same state of forwardness as No. 6, but of a dark green colour; No. 11, not such robust or dark green stems, but nearly as forward as 10; No. 12, further forward than No. 11, but lighter coloured; No. 13, of a darker green, but otherwise much the same appearance as No. 12, though scarcely so forward—about the same for forwardness as the nothing plots; No. 14, much like No. 13; No. 15, like No. 2; No. 6, like No. 2; No. 10, like No. 1. On 12th July the plots were again carefully gone over, and the following notes made: On east side of the plots, where the soil is rather lighter, No. 9 looked as well as No. 4 or No. 5; but on the stronger land, towards the west end of the plot, No. 5 looked best, then No. 4, followed by No. 9. On the whole, No. 5 looked best, then No. 4, and then No. 9. There was not very much difference in the appearance of the other plots—that is to say, the nothing plots—and the remainder of those dressed with artificials alone. On the 5th of August they were again carefully looked at, and the note made that the plots having most sulphate of ammonia were looking best. The different plots were lifted and weighed on 2nd November. They were dressed over an inch and five-eighths riddle, the large and the small separately weighed, and pitted. No diseased tubers were taken out at this time. They were left in the pits until the 15th March last, when they were dressed over, the diseased ones thrown out, and the sound ones weighed. This was done for the purpose of ascertaining which of the manures tended most to increase the spread of disease. As already stated, although the plots were only an eighth of an acre each, the following results are calculated to the imperial acre:

Plot.	Large.			Small.			Total.		
	T.	C.	Q. L.	T.	C.	Q. L.	T.	C.	Q. L.
1.....	7	4	3 12	2	1	0 8	9	5	3 20
2.....	5	5	3 12	1	5	2 24	6	11	2 8
3.....	3	18	1 12	1	2	1 12	5	0	2 24
4.....	7	15	1 12	2	4	2 24	10	0	0 8
5.....	9	19	0 8	2	4	1 4	12	3	1 12
6.....	4	18	0 8	1	8	2 8	6	6	2 16
7.....	3	19	2 24	1	4	3 4	5	4	2 0
8.....	6	6	2 22	1	11	1 20	7	18	0 6
9.....	7	7	2 8	2	1	2 8	9	9	0 16
10.....	7	2	2 0	1	16	1 4	8	18	3 4
11.....	3	15	0 0	1	8	3 20	5	3	3 20
12.....	3	16	1 4	1	10	1 12	5	6	2 16
13.....	4	0	1 12	1	5	2 0	5	5	3 12
14.....	4	0	3 4	1	3	3 12	5	4	2 16
15.....	5	6	2 16	1	7	3 4	6	14	1 20
16.....	7	9	1 4	1	16	3 12	9	6	0 16

The first point to which I would wish to call your attention in regard to these experiments is the quality of the ground, as indicated by the returns from the plots which got no manure, as well as by plots 1 and 16 and plots 2 and 15, which were respectively manured alike. The average of the four nothing plots is 5 tons 3 cwt. 1 qr. 22lbs. per acre; whilst the lowest of these plots only differs 2 cwt. 2 qrs. and 26lbs. from that average, and the lowest plot is only 3 cwt. 3 qrs. 20lbs. less than the highest of them. Again, you will observe that the difference between plots 1 and 16, situated at opposite sides of the experiment ground, and which were manured alike is very slight. The same remark applies to plots 2 and 15, which were also manured alike. All this shows that the ground was of remarkably uniform quality, and, so far, most suitable for such a set of experiments. I will now ask your attention to some of the most important points brought out by these ex-

periments. In the first place, the influence of sulphate of ammonia is very marked, either alone, or in combination with the other manures. In every case, it has caused a very considerable increase of crop. Even when, as in plot 10, 4 cwt. alone was used, the crop reached a total of 8 tons 18 cwt. 3 qrs. 4lbs. per acre, being 3 tons 15 cwt. 1 qr. 10lbs. above the average of the nothing plots. Again, in plot 9, where 2 cwt. sulphate of ammonia was used in conjunction with 4 cwt. dissolved coprolites, the results obtained were still more favourable, namely, 9 tons 9 cwt. and 16lbs., being 4 tons 5 cwt. 2 qrs. 22lbs. above the average of the plots which got no manure. Plot 4 again, where the same manure was used as in plot 9, with the addition of 2 cwt. of potash salts per acre, the results were fully as favourable; while plot 5, which got 4 cwt. sulphate of ammonia and 4 cwt. superphosphate per acre, gave the very large return of 12 tons 3 cwt. 1 qr. 12lb., being 6 tons 19 cwt. 3 qrs. 18lbs. above the nothing plots. Potash salts alone and dissolved coprolites alone gave only a very trifling increase over the nothing plots. Kainit in combination with sulphate of ammonia, as in plot 8, gave a less return by 1 ton 2 qrs. 16lbs. per acre than sulphate of ammonia alone. This result is doubtless due to such a large dose of saline manure as 8 cwt. per acre coming into too direct contact with the roots of the plant. In this case, had one-half the quantity been mixed with the soil previously, and the other half applied in the drill, the results would in all probability have been somewhat different. The addition of 4 cwt. dissolved coprolites to sulphate of ammonia, as in plot 5, gave an increase of 3 tons 4 cwt. 2 qrs. 8lbs. per acre above sulphate of ammonia alone, and an increase of 6 tons 19 cwt. 3 qrs. 18lbs. above the nothing plots. Superphosphate and kainit, as in plot 6, gave an increase of 1 ton 3 cwt. 22lbs. above the nothing plots. Sixteen loads dung per acre gave, taking the average of the two plots, Nos. 2 and 15, 6 tons 13 cwt. of potatoes, being 1 ton 9 cwt. 2 qrs. 6lbs. more than the nothing plots; while the addition of 2 cwt. sulphate of ammonia, 3 cwt. superphosphate, and 2 cwt. of kainit per acre gave, taking the average of plots 1 and 16, 9 tons 6 cwt. 4lbs. per acre, being an increase over the dung alone of 2 tons 13 cwt. 4lbs., and over the plots without manure, of 4 tons 2 cwt. 2 qrs. 10lbs. per acre. Plot 4, however, without dung, and with very nearly the same quantities and kinds of artificial manures as plots 1 and 16, gave a larger return than they did, while plot 5 gave by far the largest return of any. The influence of artificial manures, and especially of sulphate of ammonia, and superphosphate of lime in conjunction, on the potato crop on the field under notice, was very marked; while potash salts, on the whole, were only of slight benefit. On the 15th March last the different plots were again dressed over, the diseased and decayed tubers thrown out, and the sound ones weighed. I can give the figures to any member of the Club who wishes them, but as I have already taken up so much of your time, will only state the general result. About one-third of the tubers were found to be more or less diseased, the proportion of diseased being somewhat larger in the plots which got dung than in those which got artificial manure alone, but the difference between any of the plots in this respect was not very striking. The relative proportions of the large to the small tubers present some points of interest, but I cannot at present detain you longer by referring to them. The experiments, as a whole, have, in my opinion, been very successful, and present fewer anomalies than agricultural experiments often do, and I hope that the details which I have now had the pleasure of laying before you may prove of some value as a guide to practice on soils similar to that on which the experiments were carried out. I would, however, caution those who grow potatoes on the lighter class of soils, which are so common in this county, against using such a large quantity of ammoniacal manure as that which produced the greatest results in the experiments which I have laid before you, because, from experiments which I have carried out on light land, and from my own observation and experience, I am of opinion that on the light soils of this county the action of ammoniacal manures will be less marked, and that of superphosphate and potash salts more marked than in the heavier classes of soil; and that, therefore, as the land gets lighter, the proportion of ammoniacal manure should be reduced, and that of superphosphates, bones, and potash salts increased. I have thus endeavoured to direct your attention to the principles which should guide us in forming mixtures of the artificial

manures for the potato crop. When once these principles are understood, what the farmer has to do is to purchase the necessary materials at the cheapest rate, and mix them for himself. The same materials can be got in different forms. For instance, you can get nitrogen, the valuable element in ammonia, in guano, in sulphate of ammonia, in nitrate of soda, &c., but the relative prices of these articles vary from year to year, and sometimes you can buy the desirable nitrogen cheaper in one form than the other. The same holds true with regard to superphosphate of lime, potash salts, and other manurial substances. From this you will see that 'the most suitable manure for the successful cultivation of the potato crop, having regard to the quantity and cost per acre,' vary from year to year, in accordance with the fluctuating prices of the different substances from which the desirable manurial elements are derived; and it is only by knowing the principles which should be followed in forming the most suitable mixtures for the different kinds of soil that the farmer can enter the manure market to the greatest advantage, and purchase the different articles which he requires in the cheapest and most suitable forms. I have thus endeavoured to answer the very important question set down for discussion this evening in a way which I hope will meet with your approval, and which I trust may prove of some use to those of you who may not have given the subject so much attention as I have done.

Mr. ADAM (Hillhead) planted his potatoes upon the lightest portion of his soil. He used principally superphosphate, dissolved bones, and very finely ground bones, coupled with farmyard manure. He found last year that the crop grew much better than formerly, after some three or four years' grass.

Mr. HARRIS (Earnhill) was a very small potato grower, but evidently some special manures were required for good growth, because he found that on his land, on the banks of the Findhorn, the succeeding crops were not so good as they ought to be. He had been particularly struck by the facts brought out by Mr. Yool, and how well they agreed with the old notions entertained before chemistry was known. It was common to say—guano and ammoniacal manures to the strong heavy clays, and bone and phosphatic manures to the lighter soils. It just showed how practice went hand in hand with science, and where science inquired into a matter, practice ever gave a provision and was very much like the right thing.

Mr. WALKER (Altyre) said that potatoes were with him only a chance crop; he grew them only where he could not grow anything else, and had no information to give.

Mr. MACBAY (Woodside) had only grown a few acres of potatoes upon his light land. He put down about 4 cwt. of potato and blood manure, and 15 loads farm-yard manure, at a cost of about £4 per acre.

Mr. RUXTON (Inchbroom) said that, from the variability of the land in the county, it could scarcely be said that any one kind of manure was fitted even for a whole field. Last year he put down his potatoes with 12 to 14 yards farm manure, and about 50s. worth of superphosphates and extraneous manures, and he had a very good crop. This year he was giving them about 5 cwt. of a mixture of bone-dust, superphosphate, and guano, along with about 12 yards farmyard manure, and he expected to grow a good crop. He did not, however, get one field where he was sure the same manure would answer the whole of it, and therefore he thought it was safest to have a good large mixture.

Mr. YOUNG was of the same opinion as Mr. Ruxton, and he gave from 50s. to 60s. value of extraneous manures to each acre.

Mr. SIMPSON said that with 20 loads farm-yard manure and £2 worth of other manures, he had a crop of 8 tons an acre.

Mr. PATERSON (Mulben) said he gave his potatoes 16 to 18 yards farm manure, and 8 cwt. Kynoch's Potato Manure, and he found that work very well.

Mr. CRUICKSHANK (Westerton) said that farm-yard manure, if they could get it, was best for potatoes. He was sure they rooted better with that than with artificial manure, though a little of the latter might be given to make them start.

Mr. M'KESSACK (Ardgye) quite agreed with Mr. Yool

that what would suit one farm would not suit another. A great deal depended upon what kind of artificial food a farmer gave to his stock. If there was much ammonia thus on the farm, the less guano and ammonia would do. What he gave was a mixture of bone meal and a little Peruvian guano and farmyard manure. He thought it a very dangerous thing for a farmer to use ammonia and nitrate of soda. He had quite ruined good land with that. It took too much out of the land, and, though they might continue it for a few years, he was sure it would ruin the strongest land in this country. What he would do, would be to feed his bullocks well and give plenty of bone manure.

Mr. ROSE (Sheriffstown) gave potatoes farmyard manure and 2 or 3 cwt. dissolved bones. He, however, grew very few potatoes.

Mr. PETRIE (Coxton) said that last year he laid down his crop with 4 or 5 cwt. of phosphates, and he had no disease, and a very good crop.

Mr. CRUICKSHANK (Meft) had tried his potatoes with farmyard manures alone, and with other manures. With farmyard manure they were more apt to get diseased. When planted with light manures they were safer, and kept better in the pits. He, therefore, considered light manures as more satisfactory for potatoes than farmyard manure.

Mr. BROWN (Westerton) grew his potatoes upon very light, gravelly soil, and he could not grow a crop sufficient for any market without farmyard manure. He gave perhaps 4 cwt. of artificial manure to the acre, a mixture principally of ammonia, potash, and phosphates. Upon gravelly soils he thought they could not grow potatoes without ammonia; he found upon his land they required ammonia to bring the plants forward. At the same time, if the soil was full of ammonia, to put in more would only be adding an evil, because if they brought too many shaws they lessened the root crop. Yet it was necessary to have a good shaw, to bring a good root crop. By the use of farmyard manure there was a little more disease than by using artificial manures alone, but the additional quantity raised by farmyard manures amply made up for all the disease that came amongst them.

Mr. M'KESSACK (Earnside) only grew potatoes upon poor land, where he had nothing else to grow. He used farmyard manure, with a mixture of superphosphate, dissolved bones, and other manures.

Mr. WALKER (Leuchars) had but a very small farm, and grew a few acres. He ploughed in from twelve to fourteen loads of good farmyard manure in the autumn, and then gave 4 or 5 cwt. dissolved bones when planting the potato. He raised very good crops, but could not say the weight; and last year, when there was a good deal of disease, he had not a diseased potato about the place. A great object was to stir the manure well into the land in the autumn. In 1845-6, when the disease appeared in the county of Fife, he knew a farmer in the neighbourhood of Kirkealdy, who planted nearly a hundred acres. He stirred in all his dung in the winter season, and gave a quantity of soot—for artificial manures were not then known—when planting, and he saved his crop, which was a very large one. He had the experience of seeing in 1822 the greatest crop of potatoes that was perhaps ever grown, from fifteen to twenty tons per Scotch acre, raised with farmyard manure alone. They got a very great quantity of the manure, and it was probably the first time that potatoes were grown on the land. If he had plenty of farmyard manure, he would use it for potatoes in preference to all their artificial manures, ammonia, or such like stuff.

The CHAIRMAN put the following as the result of the discussion, namely, "That on the heavier soils a considerable proportion of ammonia is required, while, as the land gets lighter, the ammonia should be reduced, and the proportion of superphosphate, bones, and potash increased; and that on the lighter soils more especially it is better to use farm dung in conjunction with artificial manures."

Mr. COOPER (Spynie) moved a vote of thanks to Mr. Yool, who, in reply, said the experiments he had related took place on his farm of Westerfold. The whole field was now sown in oats without any manures. He did not know that he would be able rigidly to define the plots, but he would make a pretty near guess, and would watch the result.

WIGTON FARMERS' CLUB.

THE LABOUR QUESTION.

At the last meeting, Mr. Norman, Hall Bank, in the chair, a paper was read by Dr. Tiffen, of Wigton, on the Present Aspect of the Labour Question, as connected with Agriculture.

Dr. TIFFEN said although the movement, which has for some time past been disturbing the ordinary quietude of the agriculturists of the midland counties, has not yet spread so far north as this, it is only reasonable to expect that, sooner or later, we shall feel the effects of it; and it seems very proper, on the part of the agriculturists of any district, to anticipate any such movement, on the part of its labouring classes, by giving the subject of it a fair and calm consideration, before the excitement naturally incident to such a state of things has been roused in the minds of those chiefly interested. It is, of course, only natural that the farm labourers of this county should be tempted, by reading, or hearing, of the proceedings of their fellow-labourers in other counties, to look around them to see if they also cannot improve their condition; and it certainly behoves their employers to be prepared to meet any emergency that might possibly arise out of any agitation that might, rightly or wrongly, be set agoing amongst them. I have, therefore, been tempted to introduce the subject for your consideration to-day; and I may say that I feel all the more pleasure in doing so in that I believe the agriculturists of this district have little to fear from any movement of this kind amongst their workpeople. "Less work and more pay" is, as you all know, the cry of the Warwickshire labourer, and the sound has found a ready echo in neighbouring counties. Strikes have been arranged, trades-union principles adopted, and combinations have been formed among farm-labourers to such an extent, and in such a manner, as to cause no small amount of uneasiness, and even alarm, among the tenant-farmers of the affected districts. Indeed, the whole circumstances of the movement seem to indicate that it is not the mere offspring of a sudden thought, but rather the result of a deliberate arrangement, and determination to obtain better terms, both as to time of work and remuneration than farm-labourers have ever been accustomed to, and to secure, if possible, a certain amelioration of their general condition such as they have hitherto been strangers to. And it may well concern the cultivators of the soil, especially tenant-farmers, to contemplate to what extent they will be affected if this agitation should result in their workpeople attaining to the objects they appear to be striving for. Farms have been taken—in many instances for a term of years—rents have been calculated, and other arrangements made for their profitable conduct, upon the belief that the cost of labour would average a certain amount per annum; and if this cost be increased 15 or 20 per cent. by any cause, and such increase becomes permanent, the matter assumes a serious aspect to the tenant-farmer, and such questions as the following will naturally arise in his mind: Is he to resist any attempt on the part of his labourer to increase his wages or lessen the hours of labour? or are there any means by which, notwithstanding the increased cost of his hand-labour, he can still carry on his operations with his usual legitimate profit? The consideration of these questions must necessarily press itself upon the farmer's attention should any agitation in the direction suggested occur; but believing as I do, and have already said, that the farmers of this district have little to fear from any such agitation, I do not propose to discuss them at present, but will rather proceed to give you my reasons for the opinion I have formed. Now, the first and most important fact which has had most weight with me, in endeavouring to arrive at some rational conclusion upon the matter is this: That the wages already paid in the counties of Cumberland and Westmoreland to the agricultural labourer are equal to those now demanded by the labourers of the southern counties, and indeed they have been so for some time past. To satisfy myself on this point, I have examined the Returns on Farm Labour made to the Poor-law Board for 1870, and the Reports of the Employ-

ment of Women and Children in Agriculture for 1868-9, and I find that whilst the ordinary wages paid in Cumberland and Westmoreland averaged 15s. to 18s. per week, and from 9s. to 12s. per week with food; in Somersetshire they were only 7s. and 8s. to 12s. per week with about 1s. worth, weekly, of cider; and in eighteen other counties, including Warwickshire, they ranged from 8s. to 12s. with 1s. worth of cider or beer weekly, but in none of these did they exceed the latter sum. In Wigton Union, the weekly wages averaged 15s. per week, or 9s. with food, whilst in 38 of the southern unions they did not exceed 11s., and in 18 12s. per week; and in a large number 13s. per week was the maximum. The foregoing figures, it is to be observed, apply to ordinary labourers only; a proportionate increase in the weekly wages having been given in all counties to skilled workmen, shepherds, cowmen, &c. I ought here to remark that since the foregoing was written I have seen the report of a paper read before the Midland Farmers' Club, in which it is stated that the average earnings, without perquisites, of a labourer's family in Warwickshire were 17s. 11d. per week, and those of a cowman's or carter's family were 19s. 11d. per week. With privileges, the average earnings of these were, respectively, £1 0s. 7½d. and £1 2s. 7½d. per week. The paper I refer to appears to have been intended as a defence of the Warwickshire farmer, and whether the statements contained in it are more reliable than the Poor-law Returns I don't pretend to say, but it is to be noted that the writer includes the earnings of a whole family, whilst the Poor-law Return refers to those of individuals only, so perhaps both are right; but whether the Poor-law Return be correct or not I don't think the matter is much mended by the statements contained in the paper I have spoken of. The cottage rents in the midland and southern counties varied, according to these reports, from 1s. to 1s. 6d., 2s. 6d., and even as high as 3s. 6d. per week, whilst I suppose, though, as it is not named, I ought not perhaps to introduce the comparison, the ordinary rent of a labourer's cottage in this district would be about 1s. 3d. to 1s. 6d. per week. No account is taken in these reports of the relative price of provisions in different parts of the kingdom, but it would, I presume, be pretty nearly the same throughout. It cannot be doubted, therefore, that in the years 1868-9 and 1870 the condition of the agricultural labourer in this and the neighbouring county was from 30 to 50 per cent. better than in the southern counties referred to; and I think it may very safely be assumed that the same relation between the different parts of the kingdom exists at the present time. Thus, whatever grounds our labourers might be supposed to have for commencing an agitation it is quite clear that smallness of their wages cannot be adduced as one of them, when they compare them with those of the south. The amount of the wage is not the only advantage, however, which our agricultural workpeople have over their southern fellows. They not only receive larger wages, but they also have them fully paid in cash, and I believe not any portion of them in kind, which is a system that appears to prevail largely in the south. The truck system or "tommy-shop," does not exist, in any shape, that I am aware of, in our agricultural system, so that our labourers are in no way interfered with in the spending of their money after they have once earned it, but can, at their own option, lay it out to the best advantage, according to their own taste, and without being subjected to the exactions or impositions, supposed to be inseparably connected with the presence of "tommy." However just, honourable, or even liberal, the employer may be, a workman always feels it a grievance that he should be compelled to receive a portion of his wages in any such way, and, therefore, I consider that a very important source of dissatisfaction is removed from the minds of our agricultural workpeople in the non-existence of any form of the truck system amongst them. There is another important reason for the impression I have in this matter, which is of a more general character, and is one that will account for the

comparatively high rate of wages which has for some time prevailed in the northern counties. No one form of industry prevails very largely over another in these counties. The manufacture of raw materials of various kinds, mines, agriculture, railways, and commerce, are very equally represented. By the demand for each kind of labour, the wages of the whole are fairly balanced. If one be less remunerative than another, a workman need not remain where he is, but can turn himself to another more conformable with his necessities or desires, even if it be not in accordance with his tastes. Hence the agriculturist is obliged to give wages sufficiently good to tempt his labourer to remain upon the land; and as he has been subjected to this kind of influence for some years past, and the wages he has had to pay have been regulated by the demand in other branches of industry carried on in the county, and are so still, it is not probable that any violent convulsion in the labour market of this district will occur, unless some great rise should take place in the wages of those engaged in other employments. It is probable, nevertheless, that some little disturbance may be caused by the agitation going on in other localities extending to this, but when this does occur, I should expect that a little reflection and sober examination into their present condition here, as compared with that of their fellow-workmen in the southern counties, on the part of the agricultural labourers themselves, will so influence their actions in any such movement as to admit of their employers dealing with them in a manner satisfactory to both parties. Hence I feel a conviction that so far as regards the effect upon the price of labour in this district of the present movement in the south, our agriculturists need be under little apprehension. The comparatively high rate of wages, the payments being made in cash, the total absence of "tommy," and the ready opportunities men have of varying their employments and getting the best wages going in the terms, point to the conclusion that the principles and motives mainly actuating the agitators of the south are entirely absent, and that we have, therefore, a reasonable hope and prospect of remaining comparatively at peace. But, although the amount of the actual wage may not be affected much, one cannot be sure that the present hours of work may not be questioned, and in this and the neighbouring county of Westmoreland, where two-thirds of the agricultural labour is performed by farm-servants housed in the dwellings of their employers, any re-arrangement in this respect would, I apprehend, be attended with difficulty and possible unpleasantness. Anxious farmers accustomed to rise with the lark, and set their teams agoing by five or six o'clock in the morning would hardly reconcile themselves at once to start them at six or seven and yet pay their men the same amount of wages. Besides they would in this way lose as much of their ordinary profits, it might be supposed, as though they were paying higher wages. Unless, therefore, they can see their way to realising as much profit, in the shape of produce, by the fewer hours' work, they may reasonably enough be effected to hesitate before agreeing to any such reduction. But should any such event happen as that the hours of labour should be reduced, and his opportunities of making money so curtailed, I have no doubt that the energy and shrewdness of the Cumberland farmers will speedily find a way of realising as much if not more than his ordinary profits, notwithstanding that he may be called upon to reduce the working hours of his labourers, at the same time paying as much or even more for them than he has been in the habit of giving for the longer hours. The question of how to do this is scarcely within our province to-day. It will no doubt meet with due consideration at some future meeting, but at present it will be well to confine ourselves to the hand-labourer. It may, however, be observed that steam-cultivation, the extended application of improved machinery to farming purposes, and some plan of contracting for labour, suggest themselves as means whereby the farmer will be enabled to make up for the increased cost of his hand-labour. He must not trust to increased value of his produce, for it is very doubtful whether farm produce—I mean grain and vegetables, &c.—will ever increase in value to such an extent as to meet the increased cost of production, whatever this may be, or however it may arise, seeing that free-trade and its concomitants tend to keep down prices, and will prevent the producer reaping any advantage he might otherwise have done, by forcing up prices in accordance with the increased cost of labour; in fact, they must do so; so that it

is not by increased prices that the farmer must expect to compensate himself. It is by the increased quantity of produce per acre that he may be able to realise by the application of all the improved methods of cultivating the soil and farming generally, that he most hope to maintain his position. Steam cultivation, therefore, and the more general use of skilled labour—of properly educated labour, if I may so express myself—must undoubtedly become the necessities of the future farmer; and how he can best attain these is the question to which he must devote chief attention. In the foregoing remarks I have confined myself to the discussion of the wages part of the labour question. Let us now take a glance at some of its moral aspects; the education of the agricultural labourers' children—the inculcation and cultivation of habits of temperance, and the closing of unnecessary public-houses in rural districts—the desirability of providing suitable cottages upon every estate—the providing of suitable accommodation in farm houses where servants of both sexes are lodged, and the most suitable mode, times, and terms for hiring them, are all subjects of the deepest interest to the agricultural community, and claim our most anxious consideration. Each of these subjects, however, would furnish an ample theme for a separate paper and discussion, so that I will only speak of them very briefly on this occasion. Most of you are no doubt aware that a bill has been introduced into Parliament entitled the "Agricultural Children Bill." The object of this Bill is to prevent the employment of children in agriculture below a certain age, and to secure to them a certain amount of education. It proposes to enact that no child under eight years of age shall be so employed at all; that between eight and ten years of age the child may be employed to a limited extent, but must at the same time receive 125 days' schooling during the year; and between ten and twelve 75 days' schooling annually. Objection has frequently been taken to the Legislature interfering in a matter of this kind, and it has even been asserted that education is anything but beneficial to the working classes, as tending to render them discontented and difficult to manage; but anyone who has any knowledge of the working of the "Factories Act" and of the extent to which it has served the interests of both employers and workpeople in the manufacturing world will readily approve of the application of similar laws to the agricultural labourers; and no one, I think, can object to this Bill on the score of stringency. And then as to the utility of some education to them, if it be necessary at all to prove such a thing, I think we have only to look for evidence to the immense increase that has taken place in recent years in the use of agricultural machinery requiring skilful management and intelligent handling. Even on the very question of wages, how much more easy would it be to deal with men possessing some knowledge of their true position than with an ignorant workman having no more judgment than the clod he crushes, and deluded by the clamouring of some scheming agitator? Again, if, as seems probable, the franchise be put into the hands of our agricultural householders, how much safer it will be for the country and good government if only they can exercise it with some degree of intelligence. In fact, every consideration bearing upon the altered state of this country as regards its agriculture, points to the necessity of educating all those who may have practically to do with the future development of its various resources, and the regulating of the laws bearing upon it. Much has been done in this neighbourhood already in the way of promoting education amongst the working classes. The present high sheriff, and others, have been the means of having well-planned schools and excellent teachers established in nearly every parish, and largely have they been taken advantage of; but more requires to be done, and it only needs some moderate plan of compulsion to be carried out to ensure the few children whose parents seem to be indifferent to their future welfare in this respect a certain amount of education, and the employers of the district a comparatively intelligent body of working men; this the Bill I have referred to promises well to secure. With regard to the habits of our labourers and farm-servants I am glad to think that intemperance does not prevail to any great extent. Whether this remark correctly applies to the south, where beer is a habitual allowance as part of the wage, I do not know, but in this county, where beer is scarcely ever given except in harvest times, I believe drunkenness is seldom seen, except perhaps at fairs or hirings. Nevertheless, I cannot help thinking that in many of our villages there are too many public-

houses, which do occasionally put temptation in the way of the working man, and lead him into trouble, and his family, if a married man, into unnecessary distress. Let me now say a word upon a subject I have on previous occasions in this room spoken somewhat strongly. I refer to the faulty management which generally, or at least too frequently, exists for the lodging of farm-servants, and the necessity there is for proprietors providing sufficient cottage accommodation for the labourers and workmen required upon any estate, and the desirability, upon moral and other grounds, of doing away with the present system of boarding farm-servants of both sexes in the houses of their employers. The patriarchal system of our forefathers, when the good man, the head of the house, took his seat on a winter's evening by the side of his kitchen fire, in his old arm-chair, and gathered around him his children and servants as members of one family, and discoursed upon the topics of the day, or the farming matters of the morrow, and in other ways exercised a healthy influence over the minds of those about him, has disappeared never to be recalled, and, in its stead, we have the more refined and better educated family occupying the parlour, dining off a separate table, and leaving the servants to the care and under the control of one of themselves, it may be, in a distant kitchen, where, after work hours, the master's face is seldom seen, and where, consequently, liberty is too apt to run to licence, and loose and licentious talk substituted for sober conversation. Thence, I believe, arises much of the demoralisation of which we hear so much in rural districts; thence originates that want of interest in the employer's affairs which is so marked a characteristic of the present day; thence, also, the indifference too often shown of the employer to the welfare of his servant; and thence, of course, much of the chronic discomfort known to exist in almost all farm-houses where servants are lodged with their employers. The remedy for this state of things appears to me to lie in the provision of sufficient cottage accommodation, and the encouragement of early marriages among the working classes. It may seem odd that I should advocate early marriages among a comparatively poor class of people, but I conceive this is really the best way to prevent the demoralisation of those whom education has had little opportunity of influencing. It is almost the only way to secure home comforts for them, and certainly tends to create, or, at all events, extend that love of locality and home associations which forms so large a part of the moral nature of all classes of Englishmen, and is the best guarantee against the continuance of that scarcity of labour which is fast becoming one of the greatest difficulties with which the agriculturists of this country will have to contend. In connection with this part of my subject, I would take this opportunity of urging upon farmers the extreme desirability of furnishing their labourers and their families with an ample supply of good nutritious food, in the shape of milk, at all times. The prevalent custom of feeding pigs and calves with superabundance of this article, and, at the same time, absolutely refusing to sell it for the children of their workpeople, is a stain upon the character of the agricultural community, which no exigency of their business as farmers, or no desire for making themselves a name for producing fine animals, can possibly excuse. Bodily weakness, habitual indolence, dulness of intellect, and many other defects in the working man are traceable to the extreme poverty of his living in childhood; and how can it be otherwise when is deprived, at the most important period of his growth, of that which forms the staple and necessary sustenance of all animals in their infancy, and of none more so than the animal—man! I speak of this matter, which may perhaps seem of small importance, from a desire to see some change effected in this respect, and with a hope that farmers will not deem it unworthy of their anxious consideration. Indirectly, the whole community, but especially the agriculturists themselves, suffer from the present unnatural system to a much larger extent than they have any conception of, and I therefore seriously commend it to their notice for alteration and improvement. Before concluding my remarks,

I must briefly refer to a subject which has been largely discussed in neighbouring clubs, viz., statute hirings. A great variety of opinions appears to exist in reference to this old institution, but, from all I can gather from the discussions which have taken place, I cannot help thinking that they are a necessity with as so long as our agricultural work is so largely done by farm-servants who have to be lodged with their employers. The present periods for holding the hirings do appear very inconvenient, especially as regards the uncertain Whitsuntide; and I am strongly inclined to take a side with those who advocate Candlemas and Lammas as the fittest and most convenient periods for engaging agricultural servants. I do not see how the registry is to assist in the obtaining or selection of them; neither can I see in with the views of those who advocate a longer period of trial or service than six months. With a cottage system, however, short periods of three months, or longer, as employer and workman found themselves to suit each other, could easily be arranged, and, I believe, would be found by far the most satisfactory. In conclusion, permit me to say that in introducing the "Present Aspect of the Labour Question as affecting Agriculture" for discussion to-day, I have endeavoured to make my observations apply entirely to the circumstances of our own district, with which we are all familiar, and upon which, therefore, every member of the Club can speak from practical experience.

Mr. WILLIAM LAWSON said there was one point on which he differed from Dr. Tiffen, and that was upon the subject of milk. He ventured to question what Dr. Tiffen had said as to the value of milk for children.

Dr. TIFFEN said that milk was the natural food of all animals, man included, and, if they deprived children of their natural food, how could they expect them to grow up as strong upon substitutes? He might say he spoke authoritatively, and he could say that great numbers of children were small, puny, and short-lived in consequence of poor living in infancy. In the south of England milk was scarcely ever seen among the labouring classes, but beer or cider for the men, and tea for the women and children. It was a common thing to hear it said that the labourers in the south could not do as much work as those in the north, and he believed it was because they were better fed in the north. The better class of people certainly had milk, but the poorer persons scarcely ever saw milk. In the north here scarcely a farmer thought of setting his servant down to a meal without giving them milk, and there was no doubt but they did more work for it. Children required milk. The want of it brought on weaknesses, and tendency to disease, particularly scrofula.

Mr. TORDIFF (The Pow) said there was one thing the doctor found fault with, and that was, having unmarried servants in the house. What other plan had they to follow when they were unmarried?

Dr. TIFFEN said that this county was about the only one where this kind of thing was permitted, and he had suggested, as the remedy, early marriages, which he thought would have the effect of keeping them upon the place, which would be desirable.

Mr. LAWSON said he should much like to hear what effect Dr. Tiffen thought the abolition of the law of entail and the encouragement of co-operation amongst the farm-labouring classes would have.

Dr. TIFFEN thought it would be difficult for him to speak on the subject of entail, or what effect it had upon the agricultural labourer, but, with regard to co-operation, he thought that if they could devise a good system, and could get intelligent men to take part in it, co-operation would work well, as the co-operative principle helped to improve the position of the labouring classes. They must, however, have the labourer more educated. He believed co-operative societies worked admirably. The doctor moved that the meeting stand adjourned until that day fortnight.

Mr. T. HORNE (Baggrow) seconded this, which was carried.

PENRITH FARMERS' CLUB.

STATUTE HIRINGS.

At the adjourned meeting, the Rev. T. B. Lowry, of Watermillock, in the chair,

Mr. H. NEWBY-FRASER moved that the Club express its sympathy with Mr. George Hope, a Scottish tenant-farmer, who had been ejected from the farm which he and his family had managed and improved for many generations. He added that other farmers' clubs had expressed their sympathy in a similar way.

Mr. THOM seconded the motion, which was opposed by Mr. J. P. SHEPHERD, on the ground that the question put involved a most important matter. He objected to the motion chiefly because he failed to gather any satisfactory details connected with Mr. Hope's case from the statement made by Mr. Fraser, which happened to be all he (Mr. Shepherd) knew about the matter. It was possible all the facts might reveal a different state of things; and he was not prepared, upon the simple statement of any man, to deny the right of a landlord to dispose of his property in the way he thought best.

Mr. Fraser was also called to order by Mr. TYSON, who maintained that notice should have been given.

Mr. FRASER gave notice that he would move the vote at the next meeting.

Mr. JABEZ CROSBY, who introduced the subject for discussion, said: We are accustomed to hear it said that the age in which we live is one of progress. Laws and institutions are being tested, and that which cannot abide the test will be cast aside. The commercial and manufacturing classes are in the habit of looking upon farmers as "slow coaches." They regard us as being altogether behind the age, but it may be fairly questioned whether, during the last thirty years, there have not been quite as great improvements in agriculture as in manufactures or commerce. However, although we are not quite so slow as is often supposed, yet it must be admitted that in some matters we are behind the age, and I scarcely know anything which shows this more clearly than our method of hiring servants. As far as I know in all the other industries of the country there is nothing corresponding to the hiring statutes in agricultural districts. Masters and servants make their own arrangements with each other without any statutes, and the engagements thus made commonly continue for years. It is easy to see that there are many evils incidental to our present method of engaging servants. In the first place I maintain that our present method has a tendency to lower the self-respect of the servants. It is degrading for a number of men, and especially women to be standing in the market-place, hour after hour, waiting for employers of labour to come and look at them and inspect them, as though they were buying horses to do so much labour for them in return for so much food given. Let any farmer or farmer's wife ask themselves, whether they would not feel it a degradation to have to make arrangements for selling their labour under such conditions. They would feel it to be so, and would prefer to make an engagement without having to expose themselves in the market to the public gaze. But it may be said that farm-servants do not believe in those notions of self-respect. No doubt this is so with many, but do we think any better of them because they are lost to shame? As farmers, we ought to do our best to awaken feelings of self-respect in our servants, for such servants will be most likely to respect us, and do their work in an intelligent and conscientious fashion. When men and women lose self-respect, they easily fall into drunkenness, and licentiousness, and all other bad habits; and because our practice of hiring by statute has a tendency to lower the self-respect of our servants, I am desirous of seeing a change. But further, I maintain that it is extremely difficult, and indeed oftentimes impossible, to form an intelligent opinion of the qualities of servants simply by seeing them in the hiring fair. If we will but think seriously, we must see that our present method is absurd. A master hires a servant after a little conversation, and then, after he has hired him, he meets with a friend and says, "I have hired so-and-so. Do you

know anything about him?" And so he goes on, picking up information from one and another concerning the qualities of the person he has hired. Surely this is something like buying a pig in a poke. The servants adopt the same senseless method in relation to the character of the masters. They inquire of one and another concerning their new master, and the result is that in many cases the servants during the week send their earnest money back, and say that they have changed their mind; they have heard things about the place they don't like, and they won't go, the result being that masters are thrown out of servants, and servants out of places to be a burden upon their parents. In other cases, although they may go to their place, yet it is with a dissatisfied spirit. They are prepared to put the worst construction upon everything they meet with; they have no respect or affection for their masters; they do not put their wills into their work; and at the end of six months they mean to leave. Now, surely, it must be admitted that this is an evil which naturally arises out of our present system. But if the engagement was a matter of private negotiation, inquiries would be made beforehand, and many of those disappointments would be avoided. Besides, if the statutes were abolished there would not be so much wandering about of servants from place to place, which in itself is a great evil. It would be far better for youths to find places in the neighbourhood in which they have been bred and born. The eyes of their parents would be more or less upon them. When a young man goes to a village where nobody knows him, he loses some of the props which his character greatly needs while his passions are strong. The statute fair fosters the desire for change. Every six months servants are brought face to face with masters from other parts of the country, and they think they will try their luck somewhere else. They know the difficulties of the present place, but they don't know the difficulties of another, though they will resolve to go and see, because at the worst they can but leave at the end of the half-year. Now, I look upon this constant changing of places as a great evil, so far as work is concerned. We farmers are always teaching men to do their work according to our own ideas; but as soon as they have adapted themselves to our way of doing, they leave, and at once we have to commence with another set of men, whose methods of labour cause dissatisfaction to the masters. We get used to see things not done according to our mind, but we do not see that this constant change is at the bottom of the evil. Moreover, when servants expect to leave in a short time they become careless of their masters' interests. We may say this ought not to be so, but it is so, and it will continue to be so under the present system. What we want are servants who will be interested in their masters' welfare; but the system is against such a feeling; and we must not expect them to be of such a character so long as we hire them in the way we do. It may be said that it is not practicable to do away with statute hirings. In reply to that I have to say that in all the great industries of the country, except that of agriculture, there are no such hirings, and yet there is no difficulty experienced. Mr. Crosby concluded by reading a letter corroborative of his views in regard to the working of the system in Lincolnshire.

Mr. J. M. RICHARDSON (New Ren:) said that anyone who had been accustomed to notice the frequent changes resorted to by servants must have felt the inconvenience and the loss occasioned by such a practice. He himself had during a large number of years been an extensive employer of labour; and he always found that those servants who kept their situations were generally the men and women whom they afterwards found in an advanced position in life. There could be no doubt that lengthened service at any particular farm brought knowledge which in the end must be advantageous to the farmer, as it related to his own particular course of management.

Mr. CROSBY: It would be a very good thing if servants

were hired for twelve months instead of for half-a-year, as they would then take a deeper interest in their masters' affairs.

Mr. W. LONGRIGG said that the twelve months' system would not work upon small farms where employers only required their servants during a few months in the year.

Mr. RICHARDSON : These are only exceptional cases.

Mr. HARRISON : But what will the servants themselves say to these propositions?

Mr. LONGRIGG : There are a good many of these small farms, scattered throughout the dales of the two counties.

Mr. W. HARRISON : We have heard a good deal condemnatory of statute hirings. I should like to hear if any one has anything in the shape of private substitute?

Mr. CROSBY would hire servants either by negotiation or by register, two methods which he thought had worked pretty well in other places in different parts of the country. He thought there ought to be a sympathetic spirit between masters and servants, which, under present circumstances, was not sufficiently cultivated. The abolition of this statute system would develop that spirit. In conclusion, he observed that his feelings on the subject were entirely pure; he had no selfish point to advocate in the way of pulling down the wages, which, generally speaking, were regulated by the demand and supply.

Mr. THOM said he was a great advocate for the abolition of these hirings, which were but a remnant of feudalism. If they were to abolish these hirings—which had the appearance of slaves in a slave market—a great deal of evil would be removed which they had now to deplore. He urged the establishment of register offices.

Mr. NEWBY FRASER was in favour of yearly engagements, and the total abolition of statute hirings. If Mr. Crosby had not put his thoughts into a tangible form, he (Mr. Fraser) would move—"That, in the opinion of this club, it is desirable that statute hirings should be abolished." The demoralising effects attendant upon such gatherings must by this time be pretty well known to farmers generally, who had been in the habit of attending Penrith and Carlisle hirings. There they saw dancing, rioting, drinking, and everything that was demoralising to the agricultural class. They, as farmers, ought to consider their position, and endeavour, by every means within their power, to alleviate the wrongs occasioned to servants by the statute hirings. It had been suggested that in lieu of these hirings they should have private engagements, or engagements through a register office. He himself had nine men living in cottages upon his farm, and seven single men at the farm house. With regard to private arrangement in the hiring of servants, he might say that he had tried that plan, and he always sent his foreman to look out for single servants, and his plan was to enter into an arrangement for twelve months; but with the present demand for labour he found it very difficult indeed to make the arrangement binding with monthly payments. Only this year he had engaged two men from Martinmas to Martinmas, and they left, alleging that under monthly payments they were only bound to give a month's notice. To remedy that he would recommend written instead of verbal agreements; because they might be sure if a man refused to sign a written agreement, he did not want to do what was right and proper. He (Mr. Fraser) had tried register offices, private arrangement, and the statute hirings,

and he was not prepared to say which was the best as a means of procuring servants, but he said this, that it was a most embarrassing thing to go into these statute hirings, to wade through a dense phalanx of servants, and be compelled to listen to the rough talk and swearing usually prevalent. These fairs were out of all character with the manner and customs of the present century, and he therefore moved that they be abolished.

Mr. THOM seconded the motion.

Mr. J. C. BOUSTEAD said he hoped before they decided to abolish these fairs that they would discover some substitute that would give equal satisfaction to the farmers, and the servants themselves. He denied that these statute hirings were the chief source of the immorality in the two counties. He could show the inconsistency of the registry system, viz., pointing out that if a master made application at the registry office he might have to travel eight or ten miles to see the person, and when done it might not be the person he wanted. At the hiring fair the process took up less time. Master and man were face to face, and there was always some friend at hand ready to give advice either on one side or the other.

Mr. HAWELL thought servants looked forward with pleasure to these gatherings.

Mr. TOPPIN (Skelton), was opinion the terms should be altered from the 1st Tuesday in May to the 1st Tuesday in November, instead of at Martinmas and Whitsuntide.

Mr. HOGARTH thought the "immorality," business had been preached long enough, and the remarks of the different speakers under that head belonged to a bye-gone age.

Mr. JAMESON, as a magistrate, differed altogether with those who attributed the immorality of the sister counties almost solely to these hirings. No doubt the magistrates had a great deal of experience in dealing with these cases, but he did not believe that it ever crossed the minds of the magistrates, or that anything ever led the magistrates to the opinion that Martinmas and Whitsuntide are periods of immorality, such as had been described. No doubt a great many young men and young women did mostly congregate for the dance on these occasions; and no doubt the young men were in the habit of having a glass of beer on such occasions, but, as a general rule, it was merely taken by way of recreation, and not with the view of practicing excesses of the kind alluded to by Mr. Fraser. Such things as he alleged were the exception, and not the rule; and he maintained they had no right to lay any such charges against servants. He ridiculed the idea of masters, as soon as they got large farms, delegating their duties in the hiring market to the "foreman." They never saw their servants until they turned up at the farm; and sometimes the foreman did not select the men for the master. The result was obvious, as it might be, in the case of Mr. Fraser. He (Mr. Jameson) regarded "characters" generally as worthless; and believed that it was a much more manly and straightforward way for the masters to meet the servants face to face.

Mr. W. Harrison, Mr. J. P. Shepherd, and other speakers were in favour of keeping up the hirings; the latter maintained this was not a properly constituted tribunal to try the question, inasmuch as only one side was represented.

Mr. Fraser's motion—"That statute hirings be abolished," was supported by the mover and seconder and two others, and opposed by 24.

YORK CHAMBER OF AGRICULTURE.

GROUND GAME.

At the last meeting there was an unusually large attendance; Mr. W. J. Ware, of Skirpenbeck, in the chair.

Mr. PEACOCK, of Mount Vale, York, read a paper on the cost and evils of ground game on cultivated land in Great Britain. The occupiers of farms did not wish to deprive the landowner of the right to shoot over his own estate, and that it was not desirable, for important reasons, to abolish sporting, but to reduce the quantity of ground game, that the landowner might follow his favourite sport without serious loss to the occupier. The farmer rarely found fault with winged game. Partridges comparatively did

little harm, and pheasants were principally fed in and near the woods in which they were preserved. It was the over-preservation of hares and rabbits to which the tenant-farmer had serious objections. In estimating the cost of their production, he said he calculated, from information derived from good sources, and also from personal observation, that two hares and two rabbits, when full grown, would eat as much as a small sheep. This estimate, he believed, would be found far within the mark when it was considered what serious damage those animals inflicted on the crops, and what they consumed as food. At a meeting of the Midland Farmers' Club, Mr.

Robotham stated that the effect of preserving the game to the extent prevailing in many districts had a bad effect, morally and physically, upon the farmer, the price of meat, in his opinion, being greatly increased owing to the immense depredations of the game, and that, therefore, the whole population of the country was directly interested in the question. Mr. Robotham calculated about 16,000,000 acres of land to be overrun with an excess of game to the extent of one hare or one rabbit to the acre, and he contended that one for every four acres was a fair quantity for sporting purposes. There was, therefore, an excess of 12,000,000 hares and rabbits, taking them in equal quantities. The hares would represent the value of £900,000, and the rabbits £300,000, or a total value of £1,200,000; but, remembering that two hares and two rabbits consumed as much as a sheep, they could keep in their place no less than 3,000,000 more sheep than were kept at present. In twelve months a small sheep fed without artificial food would leave £2. Three million sheep at this price would realize £6,000,000 in place of £1,200,000, the value of hares and rabbits in excess. It was evident, therefore, that a loss was incurred annually, by the excessive preservation of ground game, of no less than £4,800,000 worth of food and wool for the people, which loss had to be sustained by the occupiers of land—an amount which is in excess of the value of all the cattle and sheep imported annually into this country. It was evident then that the annual cost of hares and rabbits kept on cultivated land was 10s. each. In addition to this there was the cost of preserving, keepers, watchers, dogs, powder, shot, &c., while the value of this costly article of food was 3s. per head for the one, and 1s. for the other. It was not to be expected that a farmer, when he saw the depredations from game going on upon his farm, would have the spirit to purchase the quantity of manure for the land and cakes for his stock which were necessary for good farming; hence he would continue his tenancy with loss both to himself and his landlord, or else he must seriously contemplate leaving the farm, and it was by no means an easy matter to get away from a farm without pecuniary loss. It sometimes happened, when a farm was taken tolerably clear of game, in a few years a new owner commenced to preserve game to the injury of the tenant. What remedy under such circumstances had he? It might be said that if he did not like to stay, he was at liberty to leave. In many cases this was done, after having laid out extra money without the chance of getting it back again. He might consent to continue his tenancy on the promise that orders were to be given to the keeper to kill the rabbits; but those were often the keeper's perquisite, and it would be against his own interest to destroy all the rabbits. In the meantime the capital of the tenant was being reduced year by year, until, in many cases, the tenant scarcely dare think of leaving, for fear that he should have little to leave with, although he might ultimately be obliged to do so. Several cases of this character had come under his own observation, and where valuation or arbitration had been resorted to, he had never seen the farmer receive half compensation for his loss by game, &c., a statement which could be borne out by practical valuers. The abuses and injustice traceable to the over-preservation of ground game were almost endless. Keepers might profess to kill rats, &c., and perhaps they did when they found them, but they destroyed the destroyer of vermin, and shot or trapped the cats that killed the mice, and waged war against owls and hawks—Rats, where numerous, are very destructive in fields as well as in corn stacks and buildings, and it is next to impossible to keep them down without dogs and cats, which are very difficult to keep on game-preserved lands. Hares were very destructive to wheat, barley, and clovers in April and May. The blade which was eaten did not come to proper maturity, was later ripe, and smaller in the ear, thus causing the sample to be uneven. The hare also eats tracks through a wheat field when nearly matured, taking only one bite out of each stem. The ear, dropping down was entirely wasted, and half-acre patches of apparent barrenness here and there testified to the destructive tendency of the hare. Those animals appeared to have a pleasure for waste, for the barren ground on such patches would be found strewn with stems, &c., which they had left behind. This damage, however, could not well be seen without going over the land before reaping. Rabbits eat all before them near the woods, burrows, &c. The practical farmer knew the value of an early seed field, April and

early in May was the most expensive time for the keeping of sheep until the seeds were a pasture, especially when all the roots were consumed, and if sheep had to be kept on dry food, they did not improve much, and it was very costly. He had seen a clover field so eaten by hares and rabbits that it was fully two weeks later than it otherwise would have been to turn the sheep into. He had known many acres of land sown with oats instead of wheat because of the ravages of hares in a wheat field. The hare will eat wheat in preference to oats, and this, in many instances, entailed great loss on the farmer. Another serious loss he might mention arose out of the fact that they could not sow winter tares where much game was kept, unless they were particularly anxious to provide for the hares and rabbits a continual feast. Again, where ground game abounds, the farmer must have all the turnips off the land and pried before or early in December; for if there came a storm, he would witness the destruction which was made. This involved an extra expense; for the turnips must be well covered, and, in consequence of the scratching of rabbits and hares, must be examined almost daily in frosty weather. In his opinion the land did not grow so much barley where the swedes were pulled off so long a period before they were consumed on the land. The hare is an epicure, who just tastes and tries, and then passes on, leaving the work of destruction either to other offenders, or to gradual decay. They heard of several instances where gentlemen shared the hares and rabbits with their tenants, and had better partridge-shooting than before, the tenants being allowed to course the hares and trap the rabbits. Persons had no more right to take a hare or rabbit without leave than a sheep or pig; yet there were many more prosecutions against stealers of game than of farming-produce or stock. The occupier of the land has to pay towards prosecuting the poacher, also often towards keeping his wife and children when he was imprisoned, as well as towards the police, who were now the principal takers of poachers. In 1871, in England and Wales alone, the total number of persons proceeded against summarily under the game-laws was 10,771. After stating that he should not like to see any person killing hares, and that the facts he had brought forward sufficed to prove the enormous cost and evil of ground game in Great Britain, he recommended that hares and rabbits should be struck out of the Game Bill altogether. He also urged the expression of an unanimous opinion on this subject by petition, that a favourable opportunity now presented itself for doing so, when a committee of the House of Commons was appointed to take evidence on the Game Bill, and that if the farmers, who were the great sufferers, did not take action for themselves, they could not expect to be relieved. They had no desire to interfere with the rights of property, but they had a right to expect due consideration in its duties. His sole object in bringing this subject before them was to provoke discussion on a matter of vast importance in many districts to both landlord and tenant, with the hope that their deliberations might result in some united and unanimous action, with a view to lessen the evil, of which, he thought, they had very just cause of complaint.

The CHAIRMAN said he appeared before them both as a land-agent and farmer, and he could assure them that a land-agent suffered as much mentally as farmers did in their pockets from ground game. No person had had more abuse or ill-will from tenant-farmers than he had from the over-preservation of ground game, although he was doing all he could to get it destroyed, but he could not accomplish his object, because he had the higher powers against him. He was condemned to be shot, because everything was eaten up, but it was considered better to shoot the rabbits than to shoot the agent. Where there was an excess of ground game it was impossible to get young trees up in woods and plantations. He had planted trees four feet high, and gas-tarred every tree to prevent them being destroyed, but he found that that would not do, for when the gas-tar had worked off the ground-game then went to work upon the trees. He was afraid that landlords were not aware of the injury and loss which was suffered from ground-game. Trees had been planted two or three times over, but they were destroyed, and they might as well have done nothing. All this, in course of time, was a great loss to the country at large. He believed that those who wanted a good stock of wined game must have very few rabbits. Mr. Prince, who was present, lived just adjoining

the property he was going to speak of, which was within four miles of York, where there was no gamekeeper, and the tenants were allowed to kill the rabbits. The gentleman who had the shooting over the land went there on the last of September, and killed twenty brace of partridges a day. The tenants looked after the game themselves, and there were a few straggling hares and next to no rabbits. In fact, he believed that where the tenants had the privilege of killing the rabbits they would look after and preserve the winged game. He stated that in the East Riding in the winter time, when the ground was covered with snow, hares came in the evening to feed in a four acres field, and he actually counted forty which ran out of that field. After the frost was over, the farmer who occupied that field found that all his turnips were gone. He went to his landlord and said "If you please, sir, I am afraid your hares are going to be hungered to death; I wish you would go and drag the turnips for them." This showed that the farmer had no ill will. If anyone happened to have a good field of swedes, the hare would go five miles to taste them. There were no better judges of turnips than the hares, and they would select the best and the sweetest. The ground game were always at work, and where there was a bit of anything to be obtained they were ready to take it, but they destroyed a great deal more than they actually ate. He suggested that one way of assisting in the destruction of ground game was to have a litter of foxes near the place, as those animals liked nothing better than a few young rabbits and a leveret. Though those present might be opposed to the over-preservation of ground game, he thought he might say for them that they wished to encourage sport in every way.

Mr. ELSTON (Selby) had had experience in valuing damages, and he had invariably found that the destruction was principally caused by rabbits, and he had seen hundreds of acres which would not have paid rent and taxes owing to an excess of game. He corroborated the chairman as to the number of partridges which could be obtained when the ground game was kept within reasonable limits, pointed out the unpleasant consequences of having officious gamekeepers, and expressed an opinion in favour of the contents of Mr. Peacock's paper.

Mr. F. DICKSON (Heslington) said the question which had been introduced was a very delicate one, as between the landlord and tenant, but he thought they would all feel that Mr. Peacock had dealt with the subject very temperately indeed. There was no doubt that the over-preservation of ground game was a great national loss to the community, and he was rather

of the opinion that perhaps the difficulty between the landlord and tenant was more with the keeper than anything else. He believed the farmers, generally speaking, were not otherwise than wishful that their landlords should have proper and legitimate sport, but not too much at the expense of the tenant and the country. He believed if landlords as a rule would keep fewer gamekeepers, they would have more game.

Mr. JOLLY (York) gave the results of his experience with regard to the destructive effects of having too much ground game, and too few animals to keep it within reasonable limits, and also referred to the blameable conduct of certain gamekeepers.

Mr. WALKER (Hay-a-Park, Knaresboro') thought Mr. Peacock had not sufficiently estimated the injury done by game, the evidence given before a commission having shown that that injury was as much as 25 per cent. They could not get people to think that it was as great a sin to take a hare or rabbit as anything else that was upon the farm, and when they reflected on this bloodshed, crime, and expenditure it had entailed, he felt they should come pretty much to the conclusion that the nearer the abolition of the Game-laws they got the better it would be both for themselves and the people.

Mr. DUFFITT (Whitwell) did not think that the limitation of ground game would have the effect of destroying winged game, and urged that if the farmers wished to apply a remedy they must speak out. He suggested that some member of the Chamber should be sent to give evidence before the committee of the House of Commons.

Mr. PEACOCK said that Mr. Lett, of Scampston, would give evidence before the committee on Tuesday for the East Riding.

Mr. WHARRAM (Naburn) moved "That this Chamber is of opinion that the excessive preservation of ground game is incompatible with good farming, and would earnestly counsel landowners to relinquish the custom of over-preserving hares and rabbits."

Mr. SMITH (Escrick), in seconding the motion, said he should be sorry to see the Game Laws abolished, and that the preservation of ground game was not what it was some years ago. He was certain the tenants would like to see plenty of winged game for sport, and he was of opinion that there would not be the amount of ground game there had been.

The motion was carried unanimously.

The CHAIRMAN moved a vote of thanks to Mr. Peacock, Mr. JOLLY seconded the motion, and Mr. PEACOCK, in response, said it was decided that he should be recommended as a witness to be examined before the parliamentary committee.

CHESHIRE CHAMBER OF AGRICULTURE.

A COUNCIL EXTRAORDINARY.

At the last general meeting at Crewe, Lord Egerton, of Tatton, in the chair, the report was read, in which it was stated:—"The third meeting of the Chamber for the half-year was on 'The land laws considered as hindrances to the thorough cultivation of the soil,' which was introduced by Mr. Latham, in a paper of great ability. The meeting, unfortunately, was a small one, and attended by few landowners, so that the discussion was confined to very few speakers, and those chiefly of one class. The council regret that in the course of the debate opinions were expressed to which they should be sorry that the Chamber should be considered in any way committed, viz.: 'That the land in this country was not property in the sense of property; it was the property of the nation, and should only be held for its benefit.' The council thinks that Mr. Latham, in stating 'that this was the principle on which his paper was founded' exceeded the limits of discussion and the principles on which agricultural chambers are founded, and they trust that in future members will abstain from expressing in the Chamber their own political views, when there is ample opportunity for doing so elsewhere, as such conduct must necessarily endanger the well-being and existence of these excellent institutions."

The CHAIRMAN, in the course of his address, said he came to a very painful subject—painful because it

implied in some degree a little censure on one of the members of the Chamber. Ever since he had had the honour of being president of the Chamber, he never read anything with more pain, or was more annoyed with anything than the report of the last discussion which took place in that chamber, because he felt it might render them liable to be misinterpreted, and might injure the cause all had in view; and that if discussions went on in future to the extent they did on that occasion, many of the members might withdraw, and the very existence of such excellent institutions as chambers of agriculture be endangered. There were so many subjects connected with agriculture that it was difficult to know where to draw the line of demarcation. Still, while he thought as much latitude as possible should be given, both to gentlemen reading papers and those taking part in the discussions, when they came to such ticklish subjects as the game laws, the land laws, and the law of primogeniture and entail, they were approaching a line at which they should stop before going too far. He was bound to say that when such expressions were made use of there as to land not being property, but that which belonged to the nation, and that it had certain rights which should be conceded by landlords before they were extorted by riot—he was bound to say, and Mr. Latham would perhaps forgive him for saying it, that that was going beyond the

bounds of what he (the chairman) should call fair discussion. Those expressions might have been, as he hoped they were, misinterpreted; but he could not help thinking if they were used that Mr. Latham was giving the reins to his imagination, and speaking rather as he would have done had he been on the hustings in Mid-Cheshire. As president of the chamber, he had noticed this, he hoped, in a temperate spirit, and without hurting Mr. Latham's or any gentleman's feelings, and simply with the view of preventing discussions going to such a length that the existence of the chamber might be endangered. He trusted that members would exercise a little restraint in their papers and in discussions, not because he wished to prevent them giving utterance to their own opinions, but because if they entered into political discussions, or what bordered upon them, it would be impossible for them to go on. In other chambers he knew that the line was more clearly drawn than in theirs.

Mr. RANDLE WILBRAHAM asked for the 11th rule to be read.

The CHAIRMAN called attention to the first two lines of the 1st rule—"To watch over and discuss all measures affecting agricultural interests." He then read the 11th—"All discussions shall be strictly confined to the subjects set forth in the notices convening the meetings at which they are held, and which shall be clearly connected with the objects for which this chamber is instituted, and when requisite, the sense of the members thereon shall be ascertained by vote at its close."

Mr. G. W. LATHAM thought he might object, as a point of order, to the report of a council on a discussion in the Chamber. He held that when a paper was read and discussion followed the reading of it, it was the duty of the chairman for the time being to control the speaker or to ask him to explain at the time anything which was beyond the limits of fair discussion or out of order; and he confessed that in this case it should have been done, because he believed the words put into his mouth were not the words he used at the time. He had looked in the various reports of the proceedings at the last meeting, and he could not find it reported anywhere that he said that the land of this country was not property in the sense of property. He would have been talking nonsense if he had said that. What he did say, and what he maintained was that land was not property as other personal property was; that there was an essential difference between what was called real property and what was called personal property; and that was the only doctrine he maintained at the last meeting, and which he was prepared to maintain still. Now he would not go into the question, but he was very glad to have this opportunity because he believed he had been misunderstood by some and misrepresented by others, and he hoped in the words he was going to say it would appear that he was not quite such a sinner as Lord Egerton believed; that, after all, his opinions and his (the speaker's) though they might be expressed very differently, were nearly the same. Now he was not going to weary the meeting by giving them a history of the tenure of land, as it would not probably be appreciated, but he would ask them to listen to a few words, written by the most eminent real-property lawyer of the day, on what real property is. Mr. Joshua Williams says ("Principles of the Law of Real Property")—"It seldom happens that any subject is brought frequently to a person's notice without his forming concerning it opinions of some kind. And such opinions, carelessly picked up, are then carefully retained, though in many cases wrong, and in most inadequate. The subject of property is so generally understood, that few persons are without some notions as to the legal rights appertaining to its possession. Those notions, however, as entertained by professional persons, are mostly of a wrong kind. They consider that what is a man's own as what he may do what he likes with, and with this particular principle they generally set out on such legal adventures as may happen to lie before them. They begin at a point at which the law stops, or at which indeed the law has not yet arrived, nor ever will, but to which it is still continually approximating. Now the student of law must forget for a time that if he has land he may let it, or leave it by his will, or mortgage it, or sell it, or settle it. He must humble himself to believe that he knows as yet nothing about it, and he will find that the attainment of the ample power which is now possessed over real property has been the work of a long period of time, and that even now a common purchase-deed of a piece of freehold land cannot be explained without going back to the reign of

Henry VIII., or an ordinary settlement of land without recourse to the laws of Edward I. That such should be the case is certainly a matter of regret. The first thing, then, the student has to do, is to get rid of the idea of absolute ownership. Such an idea is quite unknown to the English law. No man is in law the absolute owner of lands. He can only hold an estate in them." Now he asked, after reading those words of the most eminent real-property lawyer of the day, whether he was not justified in saying that no man was the absolute owner of land? Let him tell them, too, which was a curious fact, that in the two greatest books ever written upon the law of land, "Coke upon Littleton" and "Shepherd's Touchstone," the words "real property" never occurred. Things real and things personal was the only definition they gave to land and personal property. Not only so, but read any book on political economy, from Adam Smith to John Stuart Mill, and you will find the same. Study the history of feudal tenure in Hallam, Freeman, or Knight, and you will find the same fact that in early times the lord, and now the nation as the lord, has the ultimate ownership of land; and that anything else between him and the tenant is some sort of estate. Talk of real property being personal property! You cannot sell your land to whom you like; you cannot sell it to an alien. You cannot give it to whom you like; if you give it to a charity, and you die within six months, the gift is void. You cannot bequeath it to whom you like, because the law of mortmain steps in. If you die real property is divided under a totally different system from personal property; and supposing, which is the case sometimes, a man is without heirs, his real property, instead of going to the Crown, as in the case of the forfeiture of personal property, goes to the immediate lord; so he (the speaker) considered it was clearly proved that in law, in history, and in political economy there was a difference between real estate and personal estate. He might be told these were legal fictions—the dreams of political economists—the fallacies of historians. Well, let him take the opinion of a most practical body of men, the Houses of Parliament, for they were less likely to be led away by theory than anybody else in the world. He knew no place where theory was less likely to go down than in the House of Commons. What did they do? Let the public say that it wanted land for a railway, for the public health, for water works, for a cemetery, or for a sewage farm. What happened the moment the preamble of the bill was passed? A man did not get what he chose to ask for his land, but there was a certain system by which an arbitrator was called in to value the land taken, and the owner was paid for disturbance, for a forced purchase, but he had to give it up. He (the speaker) did not deny that if Parliament said it was necessary for the defence of the nation they had a right to the book he held or the inkstand before him, although it was not likely they would; but every day they took land. There was this difference, however: Supposing he bought a picture of the acknowledged Raffaele or Rubens of the day, and which he believed in twenty years would be worth to himself or his executors twenty times as much—supposing he bought a picture of Solomons and thought he was the coming artist, he would never be deprived of the picture except for the price he chose to put upon it. But if he bought ten acres of land near Crewe, and believed that from the increase of property there, and the signs of railways, that land would be worth in ten or twenty years twenty times as much, and the next year a railway ran through it, he would not get the prospective value of the land, but simply its value, plus a forced sale and any severance they chose to give him. Therefore he thought he was right in saying there was a difference between the two classes of property. They asked him why after all he should have said this, and his answer was that on it depended the whole of the value of the paper he read. His meaning was this, that it was right in certain cases to take land out of the sphere of contract; and he would go farther than that and say that the law had a right to lay down certain regulations under which land should be held by the owner of it. He dared say that he would have written a plausible and perhaps convincing paper, showing that it was better for the landlord and the tenant that there should be Tenant-Right, that would increase the value of land and benefit property, but if they examined his paper—and Mr. Dutton found the difference when he came to read it—it would be seen that he did not depend upon that. He argued that where a landlord

neglected his duty the State had a right to say, "You shall do your duty." In fact, he wanted to make bad landlords do what good landlords were doing. He did not wish to deprive a man of his estate. The estate he had ought to be paid for, every farthing. All he said was that a man had not the ultimate control of it. Why, surely, if people did not wish to misrepresent him, it would not be thought, after what he had said of a man who had an estate for years, that he was going to be too hard upon a man who had an estate for life! His object was to show that the former should be recompensed for every improvement; and was it likely that he would suggest that the latter should be worse off? He could not help thinking that he had been wilfully misrepresented or misunderstood. He believed that a landlord ought to do his duty, and that he must do his duty, and that if he would not do his duty, the State had a right to say, "You surrender your land, and we will come in and be your landlords," and for every outlay of capital, every farthing spent before that surrender took place, he should be thoroughly paid. That would not be interfering with what was popularly called the rights of property, although, as he said before, he did not hold that any one had property in land. The last thing he wished to say was that he did not think the last sentence in the paragraph of the report at all fair or just. It said, "and they trust in future members will abstain from expressing in the Chamber their own views, when there is ample opportunity for doing so elsewhere." While he could not see the force of that, he supposed the Council meant party political views, because, in the broad sense, everything discussed there was political; it was matter for the good of the State; and what he always understood they were to avoid, and what he had always tried to avoid, was party politics. Indeed he had done so, except perhaps that might be considered a reference to them when he said that the Attorney-General of the present Government brought in a Bill for making the descent of land, in cases of intestacy, the same as that of personal property, but which never went beyond a first reading. The Game-laws had, to a certain extent, been considered, but his opinion was that they should have a permissive game law which had never been agitated or suggested in Parliament, so that there was not any single subject he mentioned which could be regarded as within the area of party politics; and if politics were not to be introduced there, where could they be introduced? The first rule said the chamber was formed "to watch over and discuss all measures affecting agricultural interests." What measure could more affect the agricultural interests than the right the tenant had in the soil? It might be perfectly right to hold such a theory; it might be perfectly wrong; but no one could deny that it did affect agricultural interests; and if so, they had a right to discuss it. Mr. Latham then read the 11th rule, and went on to say that had it not been for Mr. Dutton the discussion would have gone off quietly enough; but unfortunately he asked him how he justified what he had said. He did not drag the subject in neck-and-heels. He thought they would do him the justice to say that. Mr. Dutton asked him a question, and he was forced to reply. He would have been a great coward if he had said, "No, I would rather not tell you upon what principle the paper is founded." He held that the paper dealt with subjects affecting agricultural interests, and that the discussion was connected with the paper; and he thought it rather hard upon him to say now that he had ample opportunity for airing such views elsewhere. The fact was that was the most proper place. He had not been able to become a member of Mr. Stuart Mill's Land Law League, because he was totally unable to agree with a great deal of what that body held, and it struck him that the subject would be better discussed where it could be turned to some practical account than where it was only talked of as a theory. He hoped they would do him the justice to believe that what he had said he said for the good of agriculture and not for party or political purposes. He did not think that at the present time there was any body more capable of discussing Tenant-Right than a chamber of agriculture, for by so doing they would go a great way towards smoothing its introduction into Parliament.

The CHAIRMAN: Excuse me, but we are not discussing Tenant-Right at the present moment.

Mr. LATHAM: We are discussing my paper which alluded to it, and my argument is that we should not abstain in future

from expressing our opinions on a subject which may be considered political. I hold that politics, so long as they are not party politics, are admissible. That question of Tenant-Right is one in which we all are largely interested, and I was going to say—

The CHAIRMAN: The question of Tenant-Right may be a matter for future discussion, but I think at the present moment you should confine yourself chiefly to an explanation of the views in your paper and the discussion, and in them there was no allusion of any kind or sort to Tenant-Right.

Mr. LATHAM: I wish to show that it is right to discuss Tenant-Right, but I yield to your Lordship. I only wish to justify my paper, which your Lordship hinted was a party political move instead of an honest attempt to do good. I hope people know me well enough to believe that all I do in this Chamber I do to promote the cause of agriculture, and I cannot help thinking that when you come to look dispassionately at the discussion—that when you come to knock aside the clouds of prejudice, and hard words are cleared up—you will believe that I have been misunderstood, and recognize in the paper an honest attempt to promote the cause of agriculture. I cannot think I shall be subjected to censure merely for having read that paper and answered a question which was asked me. There was not the slightest attempt on my part to dictate to the Chamber, or the slightest attempt to introduce party politics. I only threw out a few suggestions, I daresay imperfectly enough, in the hope that they might do good to agriculture; and I was very much disappointed, though Sir Harry said he approved of the paper, that the Chamber did not discuss it, but were suffered to go off into a bye-path. Let me ask you to approve of the motion that the paragraph in the report commencing "The council regret" down to the word "institution" should be omitted, not only for my own sake, but because I don't wish to sit down under the imputations cast upon me, but because the council has made itself into a sort of "star chamber" in penning such a paragraph as that without hearing any defence or asking for an explanation; also for the sake of the Chamber itself, which I believe ought to look at questions broadly, and assert its justice, wisdom, and independence by carrying my motion.

Mr. R. DUTTON said, as his name had been brought prominently forward, he wished to have an opportunity of explaining himself. His proposition in the council was that the paragraph in question should be struck out. He was quite aware of the principle which underlay Mr. Latham's paper, and notwithstanding his explanation he (Mr. Dutton) confessed he could not endorse what was contained in it. He was not so conversant with the legal aspect of the question as Mr. Latham was. No doubt he was perfectly right, but he (Mr. Dutton) thought it should be put in this way: What distinction is there between the owner of land and the owner of houses? None.

Mr. LATHAM: None.

Mr. J. SLATER: Ships.

Mr. DUTTON: That was Mr. Swetenham's illustration. Of course he knew that the Legislature had a perfect right to take a man's houses or ships, or anything else, if the emergencies of the country required it.

The CHAIRMAN said they should not go into another discussion. He did not stop Mr. Latham, because it was said in the council that he should have the fullest opportunity for making any explanation he liked. They could not now enter upon a discussion as to the rights of property.

Mr. DUTTON agreed with his lordship, but said he was simply explaining his statements at the last meeting. Perhaps it was a little unfortunate, being aware of the principle underlying Mr. Latham's paper, that he should express his dissent and ask the question he did ask, and if he had known there would have been any misrepresentation or misunderstanding he would have avoided asking it. He thought it desirable that the council should not express any opinion upon the paper read, for he objected to Sir Harry Mainwaring's and Mr. Slater's, as he did to the other, and he thought the council made a mistake when they did anything but record facts. He hoped in future the council would confine itself to what he thought was its duty, and if he could be the means of pouring oil on the troubled waters, as he was unfortunately the means of stirring them, he would second that the paragraph should be struck out, as he thought it would do no harm to the Chamber, it being

pretty generally known that they did not sympathise with certain views; and anything like a reflection upon a gentleman who read a paper of considerable ability should be erased, as it would be invidious to single out this one paper for such comments, when other papers had been read to which equal objection might be taken.

Mr. GEORGE WILLIS wished, as a tenant-farmer, and one who had an interest in the cultivation of the soil, to say a word or two upon the point under discussion. It was stated in the first rule that the Chamber was established "to watch over and discuss all questions affecting the interests of agriculture." Their noble president said, in the course of his remarks, that if they were to discuss political subjects it was impossible that the Chamber could go on. If they would allow him (the speaker) he would quote the words of Sir Stafford Northcote at a recent meeting. He said, that "without raising any sharp distinction between the interests of agriculture, and those of commerce or anything else, that the agricultural interest was one, at all events, of the most important, and one not only important, but affected by almost every question that affected any other portion of the community. So they could hardly raise a question of finance, of police, or sanitary measures, of political economy, that did not more or less—and generally rather more—affect the agricultural interest. Members who were particularly connected with the interests of agriculture, or members who had a desire to promote the general interests of the country—among which agriculture ranked very high—were conscious when questions came upon them suddenly that there must be an agricultural side to them, and that they ought to give full consideration to that if they only knew what it was. But frequently they did not know what it was, and they had learnt what they did know from conversing with some casual acquaintance, or from some constituent, and therefore they took a very one-sided view of a question which had a great many sides. Now what they really desired was that they should be instructed by those who were interested in and understood these questions, and should have their deliberate opinion on a point after it had been fairly and fully considered and discussed." After such words he (Mr. Willis) thought it would be unwise to hamper their deliberations upon any subject which might come before them, and which might be said to be truly political. He maintained that that chamber ought to be at liberty to discuss every question affecting agriculture, whether political or not, and he hoped the tenant-farmers, equally with the landlords, might be considered courteous in their remarks and deportment to warrant him in coming to such a conclusion.

Sir PHILIP GREY-EGERTON said he would be very sorry to prolong the discussion with reference to the subject brought before them, but he was anxious that they should not lose sight of the most important point, which was this: Mr. Latham disavowed the quotation made in the paragraph as not being the words he used.

Mr. LATHAM: I cannot find them.

Sir PHILIP GREY-EGERTON: In that case, I wish to call upon the secretary to know whether he can authenticate that paragraph or not.

The SECRETARY: I think they are words of the same meaning, if not the same words. I think in one paper I found those very words.

Mr. LATHAM: I have looked over two or three papers, and I don't find exactly the same in any. I think if I said anything like them, it was that land was not property in the same sense as personal property.

Sir PHILIP GREY-EGERTON, wishing to be the friend of all parties—a friend to the Chamber and a friend to freedom of discussion—said it struck him that if there was the slightest dispute about the accuracy of the words in the report, it would be better to omit them. If the Chamber took the same view, he would move that the paragraph which commenced with the words, "Your council regret that in the course of the debate," should be altered to the following: "Your council regret that in the course of the debate opinions were expressed which exceeded the limits of discussion and the principle upon which agricultural chambers are founded, and must necessarily endanger the well-being of those excellent institutions."

Mr. LATHAM: I should ask what were the opinions, because, except what I said in answer to Mr. Dutton, nothing was said that exceeded the limits of discussion.

The CHAIRMAN said it would be perfectly impossible to go into every subject they might like to debate, as that would make the Chamber a mere debating society, which was not intended, and if he had not expressed himself as clearly as he ought upon that point before, it was his own fault. His object was to warn the members to be careful how far they went in future. He felt a little difficulty in accepting what Sir Stafford Northcote had said, who went further, and said that no subject whatever might not be debated which had a bearing upon the soil.

Mr. RANDLE WILBRAHAM said that if party politics were introduced, the Chamber would come to an end, and as it had been declared that there was no intention to introduce them, he thought they might accept that as an assurance that nothing of the kind would occur again—that whatever some may have fancied had a party political bias would not be used again, but that they would still go on as unanimously as before, and retain those members who he knew, in consequence of the reports in the newspapers, were much inclined to leave the Chamber. He thought the explanations given ought to put them on the same comfortable footing as if nothing had occurred.

Mr. LATHAM consented to accept the amendment made by Sir Philip, and Mr. Dutton having signified his assent, went on to say that though the blame had been taken off himself, it was rather hard that Mr. Wilbraham should stipulate that nothing more should be said which people might fancy was wrong. A speaker could not control the fancies of people. They must not blame him for something he said which some people fancied was wrong; they must try to make the people more sensible. He promised, for his own part, to keep clear of party politics, but if they asked him to keep clear of politics they might as well ask him to keep from breathing the air that was in that room.

Mr. J. SLATER asked if the effect of Sir Philip's amendment would not be to censure those who spoke at the last meeting, to take the blame from Mr. Latham and throw it on some one else, because he happened to be one of the speakers.

Sir PHILIP GREY-EGERTON: It is only a caution for the future. I don't know whether the council have such a right; I rather think they have not; but it is generally agreed that the explanation is satisfactory, and that the matter ought to be passed over. I don't think the Council should reflect upon the speakers at previous meeting, and that it is out of their jurisdiction to give any authoritative opinion, and therefore I would prefer it if some abstract resolution could be adopted.

Mr. LATHAM: I saw that, when you got rid of the blame in one form you must throw it on others. If you could throw it on some one not here it would be a good thing.

The CHAIRMAN then put Sir Philip's amendment, when 13 voted for it and 5 against it.

Mr. J. SLATER asked if it was not competent for him now to move an amendment.

Mr. WILBRAHAM: Don't you think, Mr. Slater, we are well out of a mess?

Mr. J. SLATER: I wish to have all exonerated.

The CHAIRMAN: Well, if you like to read it I am bound to put it.

Mr. DUTTON thought it extremely important that in drawing up reports in future the Council should express no opinions upon the papers read during the year.

The CHAIRMAN: I think the Council will understand what the views of the meeting are.

Mr. G. SLATER said he should like just one word added to what Mr. Dutton had said, it was that the Council should express no "adverse" views. They had no objection to a little praise. The sting was in the censure.

Mr. DUTTON could not accept that. The Council should express no opinions.

Mr. G. SLATER: No opinion as to the paper or the discussion?

Mr. DUTTON: Yes, I would go as far as that.

Sir H. MAINWARING: Then what is the use of a Council?

The CHAIRMAN: What is the report to express?

Mr. DUTTON: It should simply be a record of transactions.

Mr. LATHAM referred to the 7th rule, and

The CHAIRMAN said it would be perfectly well understood from that what the Council were to do in future.

THE CENTRAL CHAMBER OF AGRICULTURE.

At the June meeting of the Council, on Monday, June 3, the chair was taken by Mr. E. Heneage,

The following letter was read:—

Local Government Board, Whitehall, S.W., 24th May, 1872: Sir,—I am directed by the Local Government Board to acknowledge the receipt of your letter of the 15th inst., with which you forward copies of resolutions passed at a special meeting of the members of the Central Chamber of Agriculture relative to the provisions of the Public Health Bill now before Parliament. With reference to the resolution (D), I am directed by the Board to state that it appears to be founded on a misapprehension, as the President of the Local Government Board has never declined to state how, and to what extent, he proposes to provide the necessary means to carry out the enactments of the Public Health Bill, but that, on the contrary, he has undertaken to furnish the required information.—I am, sir, your obedient servant, FRANCIS FLETCHER, Assistant Secretary.

The following letter was read from the Chancellor of the Exchequer:—

11, Downing-street, Whitehall, 22nd May, 1872: Sir,—I am desired by the Chancellor of the Exchequer to acknowledge your letter of the 15th instant, transmitting copies of resolutions passed at meetings of the Central and Associated Chambers of Agriculture; and with reference to the first resolution, expressing dissatisfaction that no portion of the surplus was applied to reducing the burdens which press upon agriculture, I am to remark that the reduction of 2d. in the income-tax has relieved tenants and occupiers of land to the amount of £150,000 per annum. If the members of the Association do not regard this sum as any relief to the burdens on agriculture, it can only be on the ground that the tax is an indirect one, and ultimately falls on the receiver, rather than on the payer, of rent. But the same argument would prove that the other so-called burdens on agriculture, such as the malt-tax, are really also indirect taxes, which, though paid by the tenant in the first instance, are made up to him by a corresponding diminution in his rent.—I am, sir, your obedient servant, C. RIVERS WILSON.

Mr. NEILD considered what the Chancellor of the Exchequer said in that letter on the subject of the malt-tax almost insulting to all connected with agriculture, adding that in his opinion that tax would never be repealed without a violent agitation, in which, he believed, the manufacturing districts would readily take part.

Mr. BIDDELL also complained of the letter, but thought it desirable to treat it with contempt.

Communications were read from the Gloucestershire, West Riding, and Cowbridge Chambers.

Sir M. LOPES, M.P., as Chairman of the Local Taxation Committee presented the following report:

The Local Taxation Committee in presenting their report are glad to be able to announce the formation of an organization which will add the co-operation of town ratepayers to their efforts to promote Local Taxation Reform. A preliminary meeting of delegates from municipal corporations and others interested was held in London on the 30th ult., the Mayor of Norwich in the chair, at which the chairman and several members of your committee attended, the Metropolitan Poor Rate League were represented, and a large number of Members of Parliament of varied political opinions were also present. Resolutions were passed unanimously affirming the injustice of the present incidence of local taxation, and calling on mayors to summon public meetings in their different boroughs for the discussion of this subject to enable urban ratepayers to give expression to the grievance under which they suffer. A society termed "The Local Taxation Municipal Association" was formed, Mr. J. H. Tillet, of Norwich, being chairman, and Captain Warner Dennis (president of the Metropolitan League) vice-chairman. Your committee have always recognised the difficulty of reaching urban ratepayers and exciting an active interest in this question in the towns, owing to the system of composition by which all the smaller ratepayers are spared direct contact with the rate collectors. The movement now organised will,

they confidently trust, tend to surmount this difficulty. Its initiation by gentlemen who on many subjects hold antagonistic political views will also finally dissipate the delusion, at one time entertained, that your committee in agitating the question of Local Taxation Reform, were animated by party or class considerations. Your Committee would call attention to a statement made by Mr. Stansfeld in reply to a recent question in the House of Commons, as to his intentions with respect to repealing the exemption of Government property from rating. After mentioning that he had prepared a bill dealing with this minor portion of the general question, he went on to say:—"He was sanguine at one time that he would have been able to have introduced it at an early period, but his views had lately considerably changed on that point. The decision which the House came to a short time since on the motion of the hon. member for South Devon considerably enlarged the scope and complicated the question of local rating, and the Government had come to the conclusion that it was unadvisable to deal with the subject simply on the basis at first contemplated, and that it would be better to defer the whole subject until they had an opportunity of dealing with it on the broader basis contained in the motion of the hon. baronet the member for South Devon." Your Committee are glad therefore to note that the Government in this statement accept the emphatic decision recently pronounced by the House, and acknowledge the responsibility it imposes upon them to deal comprehensively with the question. As, however, no indication has been given by them of any immediate action, it has been thought desirable that the Chairman of your Committee should put a question to Mr. Gladstone inquiring whether any determination has been come to by the Government as to the course which they will take in consequence of the vote of the 16th of April, and when they will make known their intentions. The President of the Local Government Board has for the third time evaded making any pledge as to the time at which he will announce the proposals he has to make as to State aid for sanitary expenses, or the extent to which it will be afforded. From his reply to Sir Michael Hicks Beach on Friday last, it would however appear he does not propose to make any general statement until after the House has gone into committee on the Public Health Bill. This would place your Committee in a much worse position than if the intentions of the Government were frankly announced before the measure was being considered in detail. It will therefore be the duty of your Committee to consider what course it will be necessary to adopt under the circumstances. Your Committee are still engaged in watching the various measures to which they have directed attention in former reports. The additional measures which have claimed their attention as imposing further charges on ratepayers are—the new bill introduced by Government respecting the Fees and Salaries of Justices' Clerks, the provision in the Steam Boilers' Explosion Bill for placing on the rates the cost of new inquiries to be held by coroners, and the twelfth clause of the new Juries' Bill, introduced by the Attorney-General, charging on the rates the preparation and postage of precepts and jury list returns, although this is strictly connected with the administration of justice. During the Whitsuntide recess the Secretary of your Committee had an opportunity of addressing a successful meeting of the West Kent Chamber in the city of Rochester, where considerable interest was manifested, and a cordial approval given to the policy of the resolution lately carried in the House of Commons. Your Committee take this opportunity of acknowledging many votes of thanks which they have received from local Chambers and other bodies for their past efforts, and they trust they will have the renewed support of all ratepayers in their future endeavours to resist any aggravations of their present unjust taxation, to secure the fruits of the recent victory, and to carry the arduous struggle now begun to a successful consummation. The Committee have to acknowledge receipt of subscriptions.—MASSEY LOPES, Chairman.

The report having been adopted, on the motion of Sir M. Lopes, M.P., seconded by Mr. Neild, the following resolution was passed:—"That this Council cannot pass over the interval which will elapse between this meeting and the next without reasserting the principle which it has always maintained, namely, that although many of the charges now paid out of the moneys levied under the poor-rate assessment may properly be charged on the Consolidated Fund, yet the removal of the exemption of income arising from any and every source is the only radical solution of the anomalies now attaching to this unjust tax."

Mr. MASFEN (Staffordshire) then moved a resolution which, after some slight verbal alterations suggested from the chair, assumed the following form: "That this Council considers it necessary for the proper security of capital engaged in husbandry that, in the absence of a lease or agreement to the contrary, the outgoing tenant should be entitled to compensation from the landlord or incoming tenant for the unexhausted value of his improvement, subject to the previous consent of the owner in the case of buildings, drainage, reclamation, and other improvements of a permanent character; and that, at the same time, the landlord should be paid by such outgoing tenant for dilapidations and deteriorations; the amounts respectively due to be determined by valuation." He said in the county in which he resided some action had already been taken in reference to that subject. A committee, consisting of land-agents and tenant-farmers, had sat for two days, and he believed they would soon be ready to report the result of their deliberations. He was glad that Mr. James Howard was about to introduce the question in the House of Commons. He (Mr. Masfen) had always been opposed to legislative interference, considering that it was rather a matter for contract between those who were concerned than for legislation; but, on that question as on others, it was necessary to take a broad and comprehensive view. In many cases what was required was met by a custom, or by a good understanding between the parties. It was only where landlords declined to perform the duty which they owed to their tenants that complaints were heard, and the question was how such men could be bound to make adequate compensation to out-going tenants who had invested capital in the land, and had not an opportunity of obtaining an adequate return. He had no wish to compromise the Council, or any of the Members of Parliament who were present, by anything which he might utter on that occasion; but he must say, that if the question could not be satisfactorily arranged without legislative interference, it would then be necessary to consider how far the Legislature could be called in for the purpose of securing proper compensation. A member of Parliament remarked to him a day or two before, that in the event of their establishing what was called tenant-right, that would be as binding as an Act of Parliament; and if that were the case, the end might be secured without the aid of the Legislature. As occupiers desired compensation for themselves, so they must be prepared to concede it to landlords in cases in which out-going tenants had not done their duty, and the resolution which he proposed was based on that principle.

Mr. RUSSON (Worcestershire), in seconding the resolution, said he was sure he expressed the opinion of hundreds of tenant-farmers when he said there was an absolute necessity for establishing an equitable system of compensation for unexhausted improvements, or what he might term tenant-right. There had been meetings all over his county in favour of that object, and one of the most numerous meetings that he ever attended, held recently at Worcester, unanimously adopted a resolution in accordance with what he had just said. The principle of the Irish Land Bill was as good for England as for Ireland, that principle being that there should be security for the capital invested by tenants in the land. He thought it would be generally acknowledged that the want of security was prejudicial to the interests of the tenant-farmer, who could not apply his capital in the most beneficial manner to himself. There were the same rent, the same rates, and other charges for small crops as for large ones; but he could not improve the soil and increase his produce because he had no security. In the second place, for want of security the landlord was deprived of the benefit which he would derive from the increased fertility of the soil. A great deal had been said about leases offering a remedy; but the great objection to them was that they led to three stages of farming—a stage of improvement, a stage of fatness, and a stage of leanness. Mr. Caird remarked that under Scotch leases there was seven years of fatness and twelve years of leanness. Sir John Pakington stated at the Worcester meeting which he had mentioned, that a friend of his who was a large landed proprietor in the Lothians, and also in Lincolnshire, told him that although the leasing system on his estate in Scotland had led to a splendid style of farming, as a landlord he preferred tenant-right without leases. Considering the present price of meat it was most important for the nation that tenants should be encouraged to invest their capital in the

land. There were thousands of acres of waste land in Somersetshire alone which might be cultivated were tenant-right established. The case of Mr. Hope, of Fenton Barns, showed the necessity for some change. No doubt landlords generally were honourable men, and would scorn to take advantage of their tenants; but there were some landlords who deserved the epithet "felonious" applied to such persons by the late Lord Clarendon. He spoke very feelingly on that subject, being himself the victim of misplaced confidence and of unfulfilled promises (laughter).

Mr. NEVILLE (Staffordshire) did not consider it desirable that there should be stringent enactments to regulate the relations between landlord and tenant, but thought it would be better to trust to the kindly feeling which existed in many districts. He also complained that the resolution did not state by what means the evil referred to was to be remedied.

Sir J. PAKINGTON, M.P., thought the resolution might be made a little more clear; he referred especially to the words "subject to the previous consent of the owner." He did not see exactly what that meant, and he thought that ambiguity or anything like "understandings" should, especially after what had occurred recently, be carefully avoided. He would therefore suggest, as an alteration, that instead of the word "improvements" should be inserted some such words as "in respect of drainage, reclamations, and other improvements of a permanent character."

The CHAIRMAN observed that that was the intention of the Business Committee, who framed the resolution.

Sir J. PAKINGTON said he was very glad to hear his neighbour Mr. Masfen introduce that important question. What would be the terms or extent of Mr. Howard's pending motion in the House of Commons he did not know; but if it were in accordance with the resolution before the meeting he should give it his cordial support. He was not at all disposed to differ from the gentlemen who expressed a preference for Tenant-Right over leases. That was a point on which there was great difference of opinion; but if as a landlord he had to make a choice between a lease and Tenant-Right, *he should on the whole prefer the lease*, though he should not care very much which it was so long as the object was secured. He agreed with Mr. Russon that a man who took a farm had a moral right to security for the capital he invested in the soil; and speaking as a landlord, he must say no landlord had a right to expect that his land would be cultivated to the greatest advantage unless he placed the occupier in a position which would enable him to make the most of his farm. The reason why he thought a lease was on the whole preferable to Tenant-Right was that, judging partly from theory and partly from practical experience or observation, he thought the tenant set about his farming with more energy, more vigour, and more freedom and independence of mind with a lease than under a yearly tenancy provided there were a good system of Tenant-Right. He was disposed to go a step further, and ask why under a well-regulated system of land tenure, a lease and Tenant-Right should not go together? The great defect of leases lay in the concluding years of the term, when the land was apt to get impoverished, and the interest of the succeeding tenant to be entirely overlooked; and he thought it was for the interest of both landlords and tenants that a sound system of Tenant-Right should be applicable to those concluding years. With regard to legislation, he confessed he thought that the less of it they had the better; but there were points upon which he did not think they could arrive at a perfectly sound system without legislation. He wished they could persuade all landlords that their true interest lay in making proper terms with their tenants, and in a liberal system of occupation of land; and if the landlords of England were influenced by such considerations and acted in that spirit, there would be very little necessity for legislation. With some such change as he had suggested, he would cordially support the resolution.

Mr. GENGÉ ANDREWS called attention to the fact that a large quantity of land belonged to small owners, and remarked that it was for such cases especially, and not as a rule the cases of large landowners, that legislation was required.

Lord MAHON, M.P., in supporting the resolution, said he believed that in Lincolnshire the custom was that the outgoing tenant was compensated for artificial manures. The Report of the Select Committee of the House of Commons

which sat in 1843 contained a vast deal of valuable information in reference to the customs which prevailed in different counties; and, notwithstanding the long period which had elapsed, was still well worthy of perusal.

Mr. BIDDILL (Suffolk) thought it would be better not to pass any resolution on that subject then, but to wait until after the autumn, so as to afford sufficient time for a full discussion of it in the local chambers. There were great difficulties involved in that question, and they required careful consideration. The resolution mentioned dilapidations to be paid for by the outgoing tenant. If everything that might possibly be claimed for under that head in the eastern counties were included in that term, the result might be that the repairs of old buildings which the tenant did not examine with sufficient care when his occupation commenced would more than swallow up the profits of years. There was one matter in which the law certainly required speedy alteration. It appeared that on entailed estates, if a tenant entered upon his occupation at Michaelmas, and the landlord died early in September, the occupier could be compelled to quit with only a few days' notice. He hoped the result of the discussions on that question would not be to create what was called fixity of tenure, or to establish that indescribable kind of property, belonging neither to landlord nor tenant, which had in the sister island formed such an extraordinary feature in the claims for unexhausted improvements. He trusted that when any change was made it would be one which would give satisfaction to all parties; what they all desired being that justice should be done to landlords, and that occupiers should not spend their money on the soil, and afterwards see their capital swallowed up by the landlord or the succeeding tenant (Hear, hear).

Mr. HENRY CLARK (Devonshire) wished to state what had been done in relation to that question by the Devon and Cornwall Chamber. In October, 1870, at the request of that body, he introduced the question, and, with a view to give it a practical turn, placed before the Chamber a farm agreement for a yearly tenancy, with twelve months' notice to quit. At the meeting of the Chamber an attempt was made to draw a false line across the scent by raising the question of yearly tenancy *versus* lease. He (Mr. Clark) accordingly submitted for consideration a lease for twenty-one years, with a defined schedule of allowances, showing that the principle of Tenant-Right was equally applicable to a yearly tenancy as to a lease. The matter was then referred to a Committee of the Chamber, and, strange as it might appear to some, the Committee reduced the allowances he had previously proposed for tenants; but on the matter being referred back to the Chamber, it restored the allowances which had been struck out by the Committee. The result was the adoption of a form of agreement, which was printed in *The Mark Lane Express*, and circulated by hundreds in the two counties. That had done a great deal of good. It had induced many landlords in the district to examine their leases with the view of ascertaining in what respect they failed to give proper security to their tenants, and of remedying the defect. There was no custom in Devonshire of giving a tenant-farmer compensation for any improvements, and that was a state of things that certainly should not exist. Any lease, whether long or short, which did not contain a liberal compensation clause, was not worth having. He hoped the Council would deal with that question practically. In his district they had defined a scope of allowances extending over five years, and he had reason to believe that in several arbitrations what he had referred to had done a great deal of good in that part of the country. He was strongly in favour of legislative interference, as being the best thing for the public, the landlord, and the tenant. Tenant-Right had a material bearing on the question now so much discussed—namely, the agricultural labourers' question. [The form of lease referred to by the speaker appeared with a letter of explanation in *The Mark Lane Express* in February, 1871.]

Mr. LIFSCOMBE (West-Riding of Yorkshire) said that it was absolutely necessary that they should come to some decision themselves as to what they wanted before they asked Parliament to legislate for them. He deprecated their mixing up as was done in the resolution different kinds of compensation. It was preposterous to suggest that a tenant should pay for permanent improvements. Permanent improvements which the landlord had the power

to make, he should be compelled to make; they did not belong to the tenant. He would conclude by moving the following amendment: "That the Council considers it necessary for the proper security of the capital employed in husbandry that the out-going tenant should be entitled to compensation from the landlord for all permanent improvements made with the consent of the owner, and that at the same time the landlord should be paid by such out-going tenant for dilapidations beyond fair wear and tear; also that for unexhausted value of his purchased manures, including cake, the out-going tenant should be compensated on a scale to be fixed by the Central Chamber."

General HERBERT said while endeavouring to secure for out-going tenants just compensation they should guard against doing anything that might appear to sanction claims of an extravagant character. A case had occurred in Ireland under the new Act in which 42 years' rental had been awarded to a tenant, though the land was only worth 21 years' purchase.

Mr. WHITTAKER (Worcestershire) agreed with Mr. Biddell that it would be best to pass no resolution on that occasion, but wait till the subject had been discussed by the local chambers. In his opinion it was necessary to guard against an out-going tenant's having to pay too much for deterioration of the land (Hear, hear). It might happen that one wet season succeeding another would render it impossible to keep the land in good condition. Let them be careful how they handed over tenants to the tender mercies of land-agents and valuers (laughter). On the other hand, as a small landowner, he should decidedly object to a tenant's spending several hundred pounds in experiments and afterwards calling upon him to refund all the money.

Mr. D. LONG (Gloucestershire) thought the resolution too complicated, and said he wished to propose one which was free from that defect. He should prefer such a resolution as this, and would propose it as an amendment: "That this Council considers it necessary for the proper security of tenant's capital engaged in husbandry, and the production of the greatest possible amount of home-grown food for the people, that in the absence of any lease or agreement to the contrary the outgoing tenant should be entitled by general legislative enactments to compensation from the landlord or incoming tenant for the value of his unexhausted improvements, such value to be ascertained in the usual way."

The CHAIRMAN observed that that could not be proposed until the first amendment had been disposed of.

Mr. YELLAND (West Gloucestershire) deprecated the Council's coming to a hasty conclusion.

Mr. C. S. READ, M.P., said the more that subject was discussed the more palpable it became that they must avoid entering into too much detail, and content themselves with passing some general resolution affirming the necessity of carrying out the grand principle of compensation for unexhausted improvements. He preferred the original resolution to the amendment, because the amendment specified what should be paid by the landlord and what by the tenant. Let them just take this case: A poor landlord did not drain his land, because he did not wish to incur the trouble or the expense of a loan. The tenant did the work with the consent of the landlord, it being of no use for him to farm the land at all unless it were thoroughly drained. Well, in that case surely it did not matter who paid the outgoing tenant, provided he were properly paid. He had always contended that whether it were draining, or road making, or the construction of fences, it could not signify who paid the man who incurred the outlay so long as he was paid. Therefore he entirely objected to the amendment on that ground. The more they entered into detail the more difficulties cropped up. Again, any resolution including details might have to be modified with reference to the state of things in different counties. The landlords in that room must be delighted at seeing how very sensitive tenants were on the question of interference between landlord and tenant by legislative enactment. He did not think it possible, however, to avoid legislative action, and if they were to have legislation let it be such as would do some good, and not such that anybody might immediately contract himself out of it. If there was to be payment for unexhausted improvements let it be part of the law of the land. He should prefer saying, instead of "in the absence of a lease or agreement to the contrary," that under all circumstances unexhausted im-

provements should be paid for. Custom was a thing of very slow growth, of such slow growth that in Norfolk it did not exist yet, and farmers in that county were not entitled by custom to be paid one single expence for unexhausted improvements. That was a case which clearly called for legislative interference, and a man should no more be allowed to contract himself out of his liability for improvements than he should be allowed to contract himself out of his liability to a legal penalty for committing robbery.

Col. BRISE had come there hoping to get some information as to the best course to be pursued, but did not find much either in the resolution or the amendment. He wanted to know what was the opinion of the Chambers of Agriculture with regard to legislative interference on that subject. It was no use entering into a discussion as to what unexhausted improvements were till they had come to some decided opinion as to whether the legislature should be called upon to interfere or not. He agreed with Mr. Read that the legislature ought to interfere, but not that anything should be done without the landlord's consent; to that he should offer the strongest opposition.

Sir J. PAKINGTON expressed his concurrence in the opinion that the Council should on that occasion avoid entering into details. It would, he thought, be very imprudent for them to pledge themselves then to details; but as there appeared to be unanimity of opinion as to the principle of compensation, he would suggest that they should not disperse without having passed some such general resolution as that read by Mr. Long, to the effect that it was desirable that the principle of compensation for unexhausted improvements should be adopted.

Mr. CORRANCE, M.P., also thought that the meeting should not enter into details in any resolution which it might pass.

Mr. RIGBY (Cheshire) and Mr. VARLEY (Worcestershire) expressed similar views.

Mr. MASFEN briefly replied, and in doing so observed that two or three chambers in the Midland Counties had combined to deal with the question in a manner which he hoped would lead to important results. He thought that after the expressions of opinion which they had heard it was desirable that the question should be adjourned (cries of "No, no"). He did not mean without the passing of some resolution. It would now go forth to the world, he trusted, that it was the opinion of the united chambers that the demand for compensation for unexhausted improvements must be met in some way or other.

The CHAIRMAN, after remarking that there were four or five amendments in prospect, said that after the very useful discussion which had taken place, he was inclined to recommend, as he did at the meeting of the Business Committee the previous evening, that the question should be adjourned till the autumn. He did not see how it was possible for the Central Chamber, without possessing more information, to lay down any scheme of compensation for unexhausted improvements which was likely to be approved; and, moreover, there appeared to be a great difference of opinion in the meeting as to whether there should be any legislative enactments or not.

Mr. Lipscombe's amendment having been put and negatived, Mr. LONG then proposed what he had before read as an amendment.

Mr. C. S. READ, M.P., said he would second that amendment, though he would have preferred a shorter one, which he had prepared, viz., "That in all yearly agreements compensation for unexhausted improvements made by the tenant should be secured to him by legislative enactment."

Mr. PELL, M.P., thought the original resolution preferable.

Sir M. H. BEACH, M.P., recommended that the reference in Mr. Long's amendment to the supply of food to the people should be omitted, as it might be taken to mean more than it really did, and had nothing to do with the pith and marrow of the question. He had also a great objection to applying a legislative enactment in all cases, for he was an earnest believer in freedom of contract, and considered it was impossible for the Legislature to pass any measure that would effectually prevent people from contracting outside the law. If a tenant and landlord wished to make an agreement that might be better for either than the terms provided by the law, they would make it in spite of the law. He should, therefore, oppose any resolution which would bind the Chamber to an approval of a legislative enactment applying to cases in

which an agreement contrary to that enactment, or going beyond it, had been concluded between a landlord and his tenant. On the whole, though inclined to accept Mr. Long's proposal, if amended in these respects, he preferred the resolution of the Business Committee. The question was, however, whether it was possible for the Chamber to come to any definite conclusion that day; and it seemed to him that the more they endeavoured to frame a resolution embodying their views on the matter, the more they were likely to produce one that might be taken to mean more than it did, or nothing at all, or be understood by one person as meaning one thing, and by another person as meaning another thing.

At this stage of the proceedings Mr. H. BIDEDELL moved, and Mr. HANLEY seconded the adjournment of the discussion until the November Council meeting, and the motion was agreed to by a majority of two, there being twenty for the adjournment and eighteen against it.

Mr. MASFEN, who had voted against the adjournment, showed that by the decision the Council had just come to, they had placed the deputed members in an awkward position; for they would have to return to the country, and report to their several Chambers that the Central Chamber had done nothing.

The CHAIRMAN explained that the resolution of the Business Committee would still be before the Council and the Associated Chambers. On the report of the proceedings being published, the resolution, which had not been negatived and would remain on the agenda paper, together with the amendment, would, of course, be printed with the discussion; it would thus go forth to the country, not that the Council had no decided opinion on the question, but that they thought the subject of such importance that the discussion was not sufficient to bring out all the points involved in it; that they were anxious not to arrive at a hasty decision, which they might afterwards repent, but to give time for all the Associated Chambers to read and digest the discussion which had taken place, and which he believed would do them much good. Then, when the Council assembled in November, he hoped there would be less difficulty in drawing up a good sensible resolution than the Business Committee had experienced in the present instance.

Mr. PELL, M.P., in allusion to the Master and Servant Wages' Bill, said that it was originally founded upon the report of the commission of inquiry into truck. That commission had, however, taken no evidence with regard to agriculture, and never inquired into such matters as might be considered agricultural truck. There was, therefore, no evidence before the committee of the House of Commons to which the bill was sent. It was only at the close of one of the committee's sittings that an amendment was moved by Mr. Mundella to bring masters and servants in husbandry under the operation of the Act, so far as concerned the supply of drink in the nature of cider, beer, and spirituous liquors in lieu, or as part, of wages. That amendment was carried in committee, and subsequently a new clause was introduced to give it effect, which Mr. Kennaway (one of the members for South Devon) would propose to amend by providing that the master who supplied his men with drink as part wages should not be regarded as committing an offence against the Act, or placing himself under its penal clauses, which contained heavy fines, but that he should be considered as not having paid such portion of the wages as he might have given in beer and cider, and which the servant would be entitled to recover. The subject was, no doubt, surrounded by difficulties, and, in committee, he had put a question or two to the member of the Government (Mr. Winterbotham) who had charge of the measure, one of which was to this effect: It was a frequent, almost universal, custom among farmers not to alter the wages of the men who were engaged in thrashing, or work of that nature, but to give them beer during their work, and he asked Mr. Winterbotham whether, in his opinion, that was to be considered truck. The reply was, "Certainly not; for you pay the usual wages, and give the beer in addition." The next case he put was this: It was not an infrequent thing, when a half-an-hour's additional work would complete, say a rick or other operation in the evening, to save the expense of getting up steam next day, by asking the men to stop for the purpose, and give them a half-pint of beer in consideration of their doing so. Having asked whether that would be truck, Mr. Winterbotham said that it would, because more time was

got out of the men by the beer. No doubt, however, it was the terms on which cider was given in the western counties that had induced Mr. Mundella to propose this additional provision to the bill. But there was another point that was deserving of notice. Curiously enough, the bill, as drawn, would not meet all the cases of truck in agriculture. It did not, for example, meet the case of the farmer who gave malt instead of beer to his labourers; and the answer to that objection was that "We don't care for that form of truck, because there the wife and children get their share." That, therefore, was something in favour of the cottage-brewing system, of which Mr. Read had so frequently expressed his approval. Of course, it would be debated in the House, and some decision arrived at on the subject.

Mr. D. LONG: Does not the general principle of the bill apply to agriculture?

Mr. PELL: No; only that portion of it to which he had referred.

Mr. NEILD thought the matter might be safely left in the hands of their representatives in Parliament.

Mr. RUSSON said that in his county cider constituted an important portion of the labourers' wages, but it was regarded as at once a nuisance to the employer and an injury to the workman, and the feeling was general throughout the county that all wages ought to be paid in the coin of the realm.

Mr. ANDREWS was of opinion that it would be extremely difficult to define the penalties to be inflicted upon the giving of liquor, cider, beer, or malt to the labourers. In fact, he did not see how they could avoid bringing the employer under penalties in almost every case where he gave liquor to the labourer.

Mr. WHITAKER asked whether the giving to a labourer of a cottage to live in would come under the definition Truck?

Mr. PELL: The bill applied only to drink, so far as agriculture was concerned.

Mr. LONG thought that the labourer ought always to have something to drink at his work. At any rate, when he was a young man himself, and worked hard, he knew he was very glad to have some. He proposed, therefore, that the interference on the part of the Legislature between master and servant was unnecessary.

Mr. ANDREWS seconded the motion.

Capt. CRAIGIE inquired whether the proposal was meant to apply to the whole bill or only to a particular portion of it?

Mr. LONG said it would apply only to the agricultural part of the bill, the ninth clause.

Sir M. H. BEACH remarked that there was a palpable absurdity in the bill as it stood. The measure went before the Select Committee without any reference to agricultural labourers at all, no evidence having been taken either by the Committee or the Royal Commission on the subject. But just before the labours of the Committee terminated, a majority of the Committee agreed to the insertion of a clause applying to agricultural labourers as far as drink was concerned. On

looking through the clauses, however, he found a proviso to the effect that the penalties under the bill, which were certainly heavy, did not apply to the case of a man who owned and worked a coal-mine, and paid part of the wages of his colliers out of the fuel obtained from the mine, provided the fuel were used for domestic purposes. Speaking to Mr. Winterbotham on this point the previous night, he said it appeared to him rather hard that the man who was working a coal-mine should be allowed to pay wages in coal, and that the man who made cider from the fruit he grew should not be permitted to do the like. The answer he received from the hon. gentleman would have been worthy of Sir Wilfrid Lawson himself, for he said that drink was so bad a thing that we must have nothing to do with it. At all events the measure should be fair to the agricultural interest, which ought to be placed on the same footing as the other interests affected by the bill.

Mr. READ, M.P.: It was quite possible that the farmer might sell cider to his men.

Mr. PELL: But a licence would be required.

Mr. LONG: He must sell not less than $4\frac{1}{2}$ gallons.

Mr. READ: A man would not be long drinking that.

The motion was then agreed to.

Mr. NEILD moved that Mr. C. S. Read, M.P., be requested by the Council to give evidence before the select committee of the House of Commons on the Game laws. He was quite aware that Mr. Read was a member of the committee, and the object of the resolutions was to place the hon. gentleman in the "witness box" to give evidence on the subject. That evidence, he believed, would command more attention than any that could be given before the committee by anyone else.

The motion having been seconded by Mr. D. Long,

Sir M. H. BEACH, as a member of the committee, said he should be glad if Mr. Read would give evidence, for as far as they had gone the inquiries of the committee were marked by a considerable dearth of good agricultural evidence, and he did not know any one who could give better evidence on the matter than Mr. Read.

Mr. READ would be very sorry indeed if the Central Chamber did not send a witness or two before the committee. Not to do so would be a great disgrace to this the leading agricultural association, which was supposed to look after things both in and out of Parliament; and particularly in Parliament. Why he had been selected for this duty, however, he did not know, though he should be happy, if it were the wish of the Council, to occupy the witness' chair. It appeared as if some people liked being burnt at the stake, but he for one did not covet martyrdom. The other day, however, a gentleman from Norfolk sat in the chair for four hours, and he dared say he should be subjected to a similar martyrdom, but if it were the wish of the Council he should be happy to give his evidence. The whole tone and tenor of which he begged to state would be in the spirit of the resolution passed by the Central Chamber last year.

The resolution was put and agreed to unanimously; and after passing a vote of thanks to the chairman, the meeting separated.

THE ROYAL AGRICULTURAL BENEVOLENT INSTITUTION.

The Annual Dinner took place on Wednesday, June 5, at Willis Rooms; Lord Vernon in the chair.

After the usual loyal toasts,

Mr. C. S. READ, M.P., proposed "The Army, Navy, Militia, and Volunteers." He said it seemed utterly inexplicable why he should have been selected to perform that duty, except that he being so entirely a farmer, it might be supposed that he had nothing to do with either of those services. He begged to say, however, that he had passed through seven years of military duty among the volunteers, and had now retired from the rank of full private without a pension; and he might add that he believed any man who had passed through such a period of active service, if called out would within seven days be found ready to shoulder his rifle and take part in the defence of the country (cheers). He regretted that the yeomanry were not included in the toast (Hear, hear). These were transition days as regarded the navy; but

whatever transition there might be, he was confident that those who manned their vessels would still have "hearts of oak."

Mr. T. SCOTT, as usual, returned thanks.

The CHAIRMAN said: It is now my duty, gentlemen, to propose the toast of the evening—"Prosperity to the Royal Agricultural Benevolent Institution." It is no want of sympathy for the object which you have in view in carrying out the work of this noble Institution that leads me to say that duty rather than inclination has led me to occupy this position. When I look at the list of presidents who have filled the chair on previous anniversaries, and find among them men who have distinguished themselves as leaders in politics, statesmen of large experience, and men who have been active in the performance of public duties, and who were able to express their opinions with an eloquence with which I cannot attempt to vie, I confess I feel rather appalled at my task, and approach it with considerable diffidence. At the same

time I do not yield to any of my predecessors in appreciation of or sympathy in the work of the Society, or entire approval of the manner in which it is performed. No greater privilege can fall to the lot of man than that of being enabled to alleviate in any way the distresses and sufferings of his fellow-men; but it is most important that the funds supplied by benevolence should be administered intelligently and with discrimination. Discrimination is important even in the case of individual charity; but it is still more important in the case of an institution like this, and should always be kept clearly in view by the committee of management. Charity well applied will do a great deal of good; charity misapplied will do an incalculable amount of harm (Hear, hear). While the proper administration of funds is of immense importance, the collection of them is of course also important, and is often very difficult. Now, let us see how these matters stand in the case of this institution. The Society has been in existence only twelve years, and is as yet hardly in its teens; but it has made such progress already, that it may fairly be described as a very precocious offspring of the worthy Alderman who sits near me. In those twelve years it has not only collected sufficient money to carry on its benevolent work from year to year, but it has accumulated a fund which now amounts to upwards of £20,000. Last year you had 257 pensioners, to whom you gave in various amounts an aggregate sum of £5,333. This year the number of pensioners will be 290, and the amount distributed among them £6,146. On the other hand, having had some experience in the administration of more than one charitable fund in London, I must say it appears to me that the working expenses of the institution are very moderate indeed (cheers). The most valuable feature in the working of this institution as regards the collection of funds appears to me to be this—that you have in the different counties of England active and energetic men of business, who, besides giving their own money, give what is far more valuable to the Society their time and thought in the performance of the duties of local honorary secretaries. I regret to say that an examination of the number of subscribers connected with the different counties has led me to the conclusion that, although the work of this institution is well known in certain counties of England, it is not as generally known as it ought to be, and on this point I shall later in the evening venture to make a suggestion to the Council. Taking the list of English counties I find that the pensions are distributed in very varying proportions. It is clear to my mind that the Institution is not as well known in some counties as in others. Human nature being alike in all parts of England I feel certain that if the work of the Society were equally known in different counties there would have been a larger application for pensions from some counties than there has been. Knowing very well how actively and intelligently the Council perform their duties I feel great hesitation in making the suggestion which has occurred to my mind as being valuable in reference to the future progress of the Society; and I hope they will excuse my doing so on account of the interest which I feel in the work, and not attribute to me any desire to obtrude my views. The first point which I would mention has reference to the dinner which we have all enjoyed much this evening. In the month of May and the early part of June there is great competition among many of the institutions of London for subscriptions in connection with their anniversary from residents in London and elsewhere, and I have no doubt that Mr. Willis, in whose house we are dining, could tell us that there is equal competition for the advantage of dining in this place. Now it appears to me that there are two things which would tend to make this institution more generally known; one that the annual dinner should take place when the Smithfield Club Show has brought together a large number of agriculturists from all parts of England; the other the alternative course of its being held in connection with the Show of the Royal Agricultural Society of England, when there would be the similar advantage of a large gathering of the class of persons among whom it is desirable that the work of the Society should be universally known. Another suggestion which I would make is that in some of the counties where there are the fewest subscriptions special efforts should be made to increase the local agencies, or to establish local committees connected with the institution. I cannot believe that the county in which I have the happiness to live (Derbyshire) would appear to such com-

parative disadvantage in the subscription list if the work of the institution were generally known there. Then, again, I should like to know whether the Council think it desirable to stand by the rule which was no doubt very valuable during the early days of the institution of maintaining the qualification for a vote at so high a standard as a subscription of 10s. 6d. per annum. It appears to me that it would tend to render the interest in the institution more general if that qualification were reduced to 5s. per annum, and you were to give two votes for 10s. 6d., and so on, in proportion ("No, no"). Then, again, with regard to the accumulated fund, it appears to me that the large amount invested might produce a better rate of interest than it does at present (Hear, hear). I am happy to learn, however, from a communication which I have received from the secretary, that that question is already under the consideration of the Finance Committee. And now I am about to make my last suggestion. It is a rather radical step which it contemplates, but I am led to make the suggestion by knowing the value which has arisen from the adoption of it in the administration of some of the charitable institutions of London. I think it would not be impossible, though it might be very difficult to inaugurate a department in connection with this institution, for giving temporary assistance to persons who are under pressure, which if not relieved will lead to permanent misfortune. We all know from experience the importance of the stitch in time; and I have known many instances in which a £10 note advanced at once has done more good than a pension of £20 for life would have done. If this principle be applicable, as I know it is, in many cases in London, why should it not be applicable also to your work in the country? I feel persuaded that you might thus enlarge your sphere of benefit very greatly. I also think that local agencies might do a great deal of good by endeavouring to find some light kind of employment for unfortunate farmers, of from 50 to 60 years of age—a course which would, in my opinion, sometimes do more good than the granting of a pension. I must apologise to you, gentlemen, for having made these suggestions. I dare say you think some of them Utopian, but I have made them from conviction, and a desire to increase the usefulness of the Society, and all I ask is, that they may receive due consideration. Before I bring these remarks to a close, I would ask you for one moment to consider what are in general the causes of distress which are most likely to affect the agriculturist. In the first place, there is personal and family sickness to which all classes and every sort of occupation are liable; but a more serious one by far than that, and you may trace it in almost every case where you give a pension, is the want of capital. We are in a state of transition in England at the present time. All old things are passing away and new things are appearing in every direction. Where £5 or £6 an acre was thought sufficient capital to farm with a few years ago, you now hear of £14 or £15 being thought rather inadequate. If capital could be enlarged you would see farmers far more independent than they are now when their stock is ravaged with the cattle plague and other diseases. There is also one terrible item of drawback to the agriculture of this country: that is the unseasonable and uncertain climate which we live in. And one point which seems to me to lie at the root of all the farmer's difficulties is that, owing to the uncertainty of the conditions under which his operations are carried on, insurance of all sorts is almost impossible. I do not myself honestly believe that any system of insurance of stock could be made absolutely sound, unless it were carried out, as it never can be, under a Government guarantee. There is another point which it is rather more difficult to touch upon. It is this—What amount of profit can fairly be made by the middle men who are connected with the farmer in carrying on his business? These men go to the corn or wool merchants, or the cheese factor, and the question, which I do not think is sufficiently considered by the farmers as a body is, what amount of profit the middle man makes in his transactions with them. I am speaking with some reason to guide me in this matter. It may not perhaps be known to everybody that in the county in which I reside, cheese factories have been started for the making of cheeses instead of in private dairies; and the greatest difficulty which we have had to encounter in carrying out this experiment, has been the disposal of our produce. We have found the cheese factors opposed to us, and dodging

us at every turn. I am sorry to use such a strong expression, but I do not know another word that expresses what I mean so well. In the result we have this year sold 75½ tons, the produce of two factories, for 72s. the cwt., which after deducting the commission is brought down to 71s., whilst the average price at the sales of cheese in our county has been 60s. per cwt. One of two things, therefore, is quite certain, either the quality of our cheese is much better, in which case the cheese must be far better made in the factory, or else, and this is the point at issue, the farmers in private dairies do not get half the profit they ought. This can to a great extent be connected with what I was speaking of just now, the want of capital. The dairy farmer who has not sufficient capital is almost entirely dependent upon his factor for funds when he wants money; consequently he is obliged to sell his cheeses at the factor's price. Well, I do not think that it is out of place to mention this as what I believe to be the cause of one of the great difficulties which conduce to the ruin of many farmers who live in the dairy districts (Hear, hear). There is one great question which is particularly agitating the public mind at this moment—I refer to the labour question. On that subject I can sum my own opinions in two words; that is, that the agitation which has been disturbing the minds of the agricultural labourers has not come one moment sooner than I expected it to do, and that if they were treated generally as I believe any man at this table would treat them, as reasonable men, and paid according to the value of the work done, I do not think that you need be afraid of strikes. It would ill become me to conclude my remarks without expressing the indebtedness which I personally feel to the members of this Council and the secretary for the assistance which they last year gave to me and my colleagues in carrying out the work of relief to a foreign country, which was attended with immense difficulty; first, in the collection of funds at home, and next in the administration of those funds abroad. The collection of funds at home would have been in the first place an insuperable difficulty, if we had not had the ready co-operation of such institutions as this, of the Chambers of Agriculture, Farmers' Clubs, and others who assisted us; and I may add that I do not think that any action you have ever performed could possibly reflect more credit upon this institution than when you thus admitted the principle that true charity is world-wide, and that it ought not to be confined to home objects, but should extend beyond the four corners of this island. Gentlemen, I will not further trouble you, but simply thank you, which I do sincerely, for the honour you have done me in asking me to preside on this occasion. I am very sorry that I have not been able to give such a treat of eloquence as several of my predecessors have done, but if any one of the suggestions I have made should meet your approval, and be of the smallest value in carrying out the work of this institution, I shall be amply repaid for any slight amount of trouble that I may have incurred (loud cheers).

The toast was drunk with three times three.

The Marquis of HUNTLY proposed "The Chairman," whom he described as setting a good example to other landlords by the interest which he took in everything connected with agriculture. He (Lord Huntly) entertained a very strong opinion, and entirely agreed with the chairman, on the subject of the wages of agricultural labourers. He thought that if farmers paid good labourers well they would not have much cause to fear strikes. What he would recommend farmers to remember was that it could not matter to them if they had to pay 25s. a week provided they had value for the money (laughter). When they had a good labourer they should encourage him, and should be prepared to pay in proportion to the work performed; and if they acted on that principle they need not be afraid of any strike.

The CHAIRMAN having briefly returned thanks,

Mr. J. J. MECHI gave "The Agricultural Societies of England, Ireland, and Scotland." He expressed his surprise that so small a proportion of the farmers of England and Ireland belonged to that Society, and agreed with the chairman that the sole explanation was that the good which it had done was not sufficiently known. In conclusion he associated with the toast the name of Mr. Chandos Wren Hoskyns, and alluded to the fact that that gentleman was the author of an excellent work entitled *Talpa*, or the History of a Clay Farm.

Mr. C. W. HOSKYNs, M.P., in responding, said those who were acquainted with the history of agriculture in this king-

dom must be aware that the three societies included in the toast had produced a wonderful revolution. Never had there been a greater change than that which the Royal Agricultural Society had brought about all over England. They were there that evening, however, not so much to sing a psalm over successes as to mourn over the failures which might attend what were at first the most promising careers. While, on the one side, they saw most wonderful success, on the other they beheld lamentable failure in the race of life; and, sitting as he had been by the side of two men who had distinguished themselves by noble efforts in the cause of charity, Lord Vernon and Mr. Mechi, one of whom had founded that society, and the other had done so much to relieve sufferings which arose from the ravages of war, he felt that they had reason to be proud of the cause of British charity as thus represented. The great fault of English agriculture lay in its inequality. They saw one farm which was cultivated with the advantages of adequate capital and great intelligence, and on looking over the hedge they saw another farm where there was an utter lack of capital and intelligence (Hear, hear). There were, no doubt, various causes for that inequality, but he believed one of the chief ones was, that there was too much regard for old habits, and that the system of entailing did not allow the landlord to possess the power which he ought to have of assisting the farmer, or the farmer sufficiently to encourage the labourer. He agreed with the chairman that farmers had nothing to fear with regard to agricultural labourers. Agriculture had in itself a power, not of revolution, but of reform. Farmers were willing to listen to complaint, where there was cause to complain, and he believed that the best kind of labour would be found most profitable, and that in return for that they would be able to pay higher wages. The interest which that question had excited in the two counties in which he was especially interested, Worcestershire and Herefordshire, had, he believed, led to a conviction in the minds of many landowners that there were faults in their agricultural system which required amendment. Agriculture totally differed from other callings. There were three parties interested, the owner, the occupier, and the labourer, and there was a contract between the landlord and tenant the nature of which was such that it led them to overlook the fact that those who were beneath the farmer were left too much outside the contract. He did not quite go the length of a writer who said that in every agricultural lease there ought to be a stipulation that to every 50 or 60 acres of land there should be a cottage; but he did think that there ought, if possible, to be some arrangement, under which, with the sanction of the Legislature, labourers would have a more recognised position upon the farm. He believed it was for the interest of all parties that there should be a recognition of the position of those who had a right to live out of the land. He apologised for introducing that topic; but it seemed to him only natural that when they were providing for the decayed farmer they should consider also the position of the struggling labourer.

Mr. C. S. READ, M.P., in proposing "The Executive Council," observed that that Institution would be a monument of the largeness of heart and abounding generosity of the founder long after his agricultural romances and extravaganzas had been forgotten. He felt that the farmers of England were greatly indebted to the gentlemen who so well managed the affairs and promoted the prosperity of that society. Although that was the first time he had had the honour of attending one of the annual dinners, he was happy to say that Norfolk had not been unmindful of the claims of that Institution. The fact that the subscriptions from that great agricultural county amounted in the last year to £500 showed that it had done its fair share. Moreover, he believed that before another anniversary Norfolk would have given a further proof of its interest in the work by transferring a surplus of £5,000 from the cattle-plague subscriptions to that society, as a means of relieving its destitute agriculturists, retaining the nominations in its own hands, and he hoped that would not be followed by any diminution of its annual subscriptions. He believed there was a rather troublesome future in prospect for the tenants of England, especially with regard to arable land. He might be charged with taking too gloomy a view of their position, but he could not repress the feeling he was expressing. Somehow or other, rents were constantly increasing, and artificial manures

were constantly degenerating in quality and advancing in price. The chairman said the latter evil was due to their own fault; but Peruvian guano seemed to be nearly exhausted, and farmers could not cause the birds to make fresh deposits. Again, the seasons had of late years been very adverse to agriculture: they still groaned under the burden of the Malt-tax, and most of them were still subject to a six months' notice to quit, without having proper security for the capital invested. Added to all this, there had now come a great demand on their pockets in the shape of increased pay for the agricultural labourer. He quite agreed with the Marquis of Huntly that they must classify labour, and pay men according to their ability and the work they performed; but as regarded piece-work, it was a remarkable fact in his own experience that there had never yet been a case in which a labourer had come to him and asked him to let him work by piece or job. A uniform rate of wages had hitherto been the rule, and if piece-work could be established, the best men would benefit considerably, and the worst might be left to take care of themselves.

Mr. C. S. CANTRELL, in responding, congratulated the company that, instead of spending money on bricks and mortar

to provide an asylum, the society had largely increased the number of recipients of pensions, and that after the next election there would be nearly 300 pensioners receiving among them about £6,000 a year. On the other hand, the working expenses of the past year amounted to only £717, which was by no means extravagant considering the amount of benefit the society was conferring. He agreed with Mr. Disraeli, that in every parish or district of England where there were farmers that Society ought to have an honorary local secretary. As regarded agricultural labourers, he hoped it would not go forth to the world as the opinion of those present that they ought to receive 25s. a week; but he had for many years, as far as possible, employed his own labourers on piece work, and they had earned from 18s. to 20s. a week all the year round.

The remaining toasts were "The Secretary," and "The Honorary Local Secretaries," severally responded to by Mr. C. B. Shaw and Mr. Hanslip Long.

The SECRETARY read a long list of donations and subscriptions, amounting to a very large aggregate. The musical entertainments, of a very varied character, included, of course, the National Anthem, which was given with peculiar effect.

THE ISLINGTON HORSE SHOW.

On the Saturday, the opening day of the ninth show of horses at the Agricultural Hall, the morning was warm, and we expected to be kept in a gentle simmer under the crystal roof, but were agreeably disappointed, as it was the coolest place we had found during the week. Business commenced at ten, Sir Watkin W. Wynn, Mr. Villebois, and Captain Percy Williams acting as judges of thoroughbred stallions and hunters, three well-known masters of foxhounds in their time; the two first welter weights, while the last, besides having played his part with the horn, has landed many a winner by a short head—a thing that adds not to the beauty of a horse, but in a race it has made him famous as well as his sire and dam, and long-headed fellows of his owner, trainer, and jockey—at least in the opinion of those who measure merit by success. The short head has enriched beggars and denuded lords, broken up homes, added to workhouses, gaols, suicides, and the gallows. But why should a noble animal and a glorious sport be libelled for this? We might stop burglary by pulling all the houses down, but not stop gambling by making the breed of horses extinct, or even banishing the root of all evil—"gold, glittering shining gold"—as gamblers would then pitch for their buttons or stake them on the turn up of a card, king or queen, or the birth or death of a prince or princess; and when gentlemen call some of these hangers-on of the Turf "the greatest scoundrels unhung," they should most certainly couple with them "some of the most reckless idiots ever born"—"them as has money and no brains," &c. As to "unhung scoundrels," we have had them on the throne, in the Lords, the Commons, and the Church. But here come the much-reviled thoroughbreds. The most conspicuous among the lot is Dalesman by King Tom, out of Agnes by Pantaloon, who has thickened into twice the horse he was when he gained first honours here in 1869; and the lot he has now to contend with is nothing to the company of that year, though it may be on an average with 1868, when General Hesse, from the same stable, was victorious. He is down in the catalogue as 16 hands 2 in., but this we should say is fabulous, and that 16 hands would be nearer the mark. His get up is far superior to Count D'Orsay, which, though magnificent, smacked too much of a "professor of the art." That compact brown looks very well as he comes to you, but, on passing, is wanting behind, and has a

shortness in the thighs, and a lack of liberty in his hind-leg action, so the son of North Lincoln takes the same honours as he did last year, when second to the handsome Cambuscan. *Tinkle, tinkle, tinkle!* What the deuce is that? Why, an indefatigable little gentleman tolling a bell, like Joe 'o the clock, to remind the judges that time is on the wing, or that some of the rubbish in the class ought to be removed. Dust away! while the gentleman in grey, like a good Samaritan, is trying to make every one comfortable. *Tinkle, tinkle, tinkle!* The big staring chesnut is Alcibiade by Cossack, out of Aunt Philia by Epirus, and so much improved since he was first here that we hardly knew him as the raw loughboat leggy horse of 1870. Still, though he is well known as a steeplechaser, and looks like one that may be good for three miles across country, and easily outpaced in a mile over the flat, he is anything but a perfect made one, and with all his good points and infirmities nothing but an overgrown son of the wiry merry-going Cossack, but not in the least like his dam's sire, the really neat handsome Epirus. Then here is the light narrow Fitz Ivan, just out of training, looking as much out of his element as a shorn sheep in a flock with their wool on. Wild Moor is not of much substance, and that scarecrow Rouge Dragon out of Paradigm, the dam of Lord Lyon and Achievement, shows what a lottery breeding is. Hotshots forelegs are too much under him, but with some of "Artillery's" markings and points; while Sir Hercules, though big enough, with his long weak back, does not remind one of the great hero who mucked out the Augean stable, nor a horse of that name, that got Irish Birdcatcher. Fandangero by Pandango, is a short hollow-backed horse, with strong shoulders, that we think we have seen before now in a trotter class, and once the property of the late Mr. Crisp, of Butley Abbey. The light hunting-like four-year-old is Cottesloe, own brother to Dalesman, and belonging to the Veterinarian of the Vale. So much for Buckingham! Dalesman gets the blue ribbon. *Tinkle, tinkle, tinkle,* and out they go. Among the hunters, nobody can deny there were a great many totally unworthy of the title, but to counterbalance this there was a fair sample, who, if they had not the beef of some in former exhibitions, looked more like going, with better action, which, after all, is the cardinal point; for if they cannot move as a horse should that is

supposed to carry a gentleman pleasantly across country with hounds, they are not hunters, and find their way after changing hands times innumerable Jove knows where. This is now a matter of history, and though at the time we had the "impertinence" to hint this of several "prize" nags, the same men now, if you mention the names of the horses, exclaim, "Oh! ah, he was nothing but a 'bus horse." But these 'bus animals got all the prize money, and there's the mischief. Let us have no more of them, never mind how good a horse may strip, let the judges' motto be "Action, action, action." It is not the soft-spoken soapy individual that nods the head and cackles "Yea, yea," and cries "Amen!" to every one's opinion that is likely to do any good for horse shows or anything else, but rather the antagonistic one who, if he does not see a thing in the same light as another person, is not afraid to say so, and no man of intellect will take offence at this, knowing how liable we are all to error, more especially in horses. *Tinkle, tinkle, tinkle!* drat that little man! To horse, to horse! and there are no less than thirty-four down in the first-class, and although one mare's name is "Handsome is as Handsome Does," we are not going to notice the lot, but let the indifferent ones pass, which is the only handsome way of getting rid of so long a named one as Mrs. H. H. D., not a bad sort. Those drawn by the judges were Major Quintin's bay five-year-old, a hunting like horse, rather slack in the back, and a round slow goer, and as much at home in the circle as a circus horse; in fact, all the Major's nags remind one of the riding school. Traveller, a compact chesnut horse six years old, and bigger than he looked, a grand mover, going collected and well, is own brother to Wanderer, a very bloodlike horse, that was sold at the first sale of the Pytchley horses for 300 guineas. Iris, the first prize in this class last year, and consequently disqualified, looked blooming and better than he ever did. Some people may not have recognised him again, but he was Mr. Anstruther Thompson's favourite horse, on which he was painted by Sir Francis Grant, and exhibited in the last exhibition of the Royal Academy. Cigar is a lengthy, powerful mare, on a short leg. Pioneer, a five-year-old, and great lengthy horse, showing blood and power, of good form, with hocks and knees near the ground and no lumber. is a free mover, but wants a year or two to furnish. Viscount is a ragged-looking business-like horse, who with Dick Webster went along in hunting style, and Marmalade, who was nowhere last year in this class, but second in the next without condition as to weight, is still a bit of a daddy longlegs, and seemed at war with his bit. Monarch, a winner of 13 agricultural prizes, does not get his hind-legs under him. Longbow, from Nuneaton, fought with his bridle, and had his head in the air all the time. Beckford, the Bath and West of England and Birmingham horse, has fined, and is up to weight. Major Billington's Brilliant went short and stale; action not adapted for a show-yard. Iris and Traveller were the best gallopers, and we think the latter, although he is not so good a stand-still horse as the three picked ones, Pioneer, Viscount, and Cigar, yet we thought he was quite as worthy of a place as two of them. We know he does not strip so well as the others, and that he does not grasp so much below the knee, but he looks as if made of the right stuff and, as we said before, can go. In the next class there were forty-seven down, some being entered for the previous class. The half-dozen drawn were Landmark, the first prize, as handsome a looking horse as any in the yard as a five-year-old hunter, and galloped easily but not quite so strong in his hind-leg action as he might have been, and it struck us that in his trot he went nervous, twitching, and sticky; in fact, although a good goer, and we quite agree with the ver-

dict, the strong galloping of Caradoc pleased us better, a short-necked horse, almost to deformity, but deep framed, compact, muscular, and hardy looking, with blood—then he is two years older than Landmark; but we think Caradoc quite as worthy of a place as the second Free and Easy, a rather plain but hunting-like horse, or the third Marmalade, noticed in the previous class. Silver Rhone by Rapid Rhone, another Wansford horse, we did not take to; but Captain Young's Knock-orne, a varmint hog-maned brown, looked like hopping over his fences, while Mr. Ashton's The First Corner could gallop. Amongst the others was that very beautiful little mare, Mr. Lucy's Heroine, a prize taker at the Agricultural Hall; Mr. Smith's Patriot, Mr. Denie's Charlie, Mr. Heathcote's Brilliant, Captain Stirling's steeple-chase like horse Little Harry, Captain Greville's Dandyboy, of good form but no mover, Mr. Lawes's Roderick Random, Mr. Hutley's Quality, Mr. Little's slack-backed Arthur, and Mr. Hawkins's Cider Cup. In the four-year-olds there were some promising horses and prize takers, the first prize Brampton Boy, by Idler, showing blood with good form and fair action, but has a rather light rainbowy neck. The second prize horse, Moslem, by General Hesse, being the best for breed and looks, but he was very raw, sticking his tail into his quarters, and not showing to advantage. Erl-King, the third prize horse, is a powerful big-limbed horse, but he did not get his forelegs away from him to our mind. Of the other picked ones Mr. Grant's useful little bay Banker galloped remarkably easy and well, and no mistake. Mr. Armstrong's The Banker, a well-known prize three-year-old, was smothered in beef like a prize ox, and did not perform at all well in the saddle. Captain Barlow's Knight that beat The Banker at Birmingham, was here, and Mr. Bolton had a light charger-like animal. In the hunters not exceeding fifteen-two Major Quentin took first honours with a bay fifteen-one, a perfect gem—such a smart dashing little dandy, that he was quite the buck of the show; a hog-maned dun of Captain Young, a hunter in form and action, being second; and an extra prize was given to Mr. Phillips for Lincoln. Mr. Pilcher's Marquis, Mr. Bailey's Reviser, and Mr. Willett's Hartley were the next best-looking. Then came the Cup for the best in all the hunting classes, Pioneer, Landmark, Bampton Boy, and the little dandy of Major Quentin's going for it. The tussle laid between Pioneer and Landmark, and went after a very little hesitation to the weight-carrier Pioneer. Lords Shannon and Calthorpe with Colonel Maude now took up the judging with the riding horses, Miss Millard taking a first and second on a neat brown, Marvel, with good knee action, and a bay, Roebuck, not so neat as the first prize; while Mr. Allen came in for third on Black-bird, a showy park hack: a great many in this class were poor indeed. In the cover hacks and roadsters, weight carriers, not above 15.2, Mr. Frisby, a very successful exhibitor, won with a very gentlemanly, blood-like black hack, Matchless, but not up to great weight; the second, Filbert, was a good goer, Captain Jay taking the third riband with Confidence, a hollow-backed cob of power. Mr. Smith's Countess, Mr. Calthorpe's Bobby, Mr. Oakley's The Imp, and Mr. Shillingford's Wolvercot were good looking. The park hacks and ladies' horses, not exceeding 15.2, were not an astonishing lot. Then, in park hacks not exceeding 15.1, there were several high steppers with style and form, the prize going to a clever stepping grey of Mr. Hornsby's, that one may ride with pleasure and without being the observed of all observers; while the second, Mr. Frisby's Gameboy, a grey, was a very showy attractive horse, with easy but grand action; and the third, a nice brown hack of Mr. Jacob's, up to weight, dropped a little in her hind-leg action. Major Quentin

showed his little dandy hunter here, but got nothing—a class we thought he was just adapted for. Mr. Hewitt's Bridesmaid had park action; Mr. Matthews', a neat hack; and Mr. Frisby's Empress very flashy action, but not much form. In park cobs the first went to a very handsome black, Tinker, with good action; the second to Dunstan, a well-known prize-taker; and the third to Burton, a clever cob of Lord Rosslyn's. Mr. Holmes won the first prize for roadster stallions with North Star, a very clever bay horse, and a good mover, Ambition, an old stager but good mover, being second, Captain Barlow's Tom Brown being highly commended. There were some stallions of other breeds, including a couple of Arabians. Perfection and Norway were the only competitors in the pony class, the first being well-known in the prize ring. There are some nice ponies and harness horses, several having already appeared in the saddle. Taking it altogether, it is a fair show, but not equal to that of many years, and we miss many an old exhibitor.

PRIZE LIST.

HUNTERS AND THOROUGH-BRED STALLIONS.

JUDGES.—Sir Watkin W. Wynn.

Captain Percy Williams.

Mr. H. Villebois.

Weight carriers up to 15 stone.—First prize of £60 and cup, Major Peoploe, Garston, Hereford (Pioneer); second of £30, Walter Farquhar, King-street, St. James (Viscount); third of £20, T. Percival, Wansford (Cigar). Commended: E. Oakley's (Traveller).

Without condition as to weight.—First prize of £50, H. Jewisons, Ransthorpe, York (Landmark); second of £25, T. Percival (Free and Easy); third of £15, T. Musgrave, Beverley (Marmalade). Highly commended: A. Billington (Caradoc); T. Percival (Silver Rhine); and Captain Young (Knockorne).

Four years old.—First prize of £50, H. Sanders, Brampton, Northampton (Brampton Boy); second of £25, W. Core, Peterborough (Moslem); third, W. Killock, Liverpool (Erking). Highly commended: J. Grout's (Banker).

Without condition as to weight, and not exceeding 15 hands 2 inches.—First prize of £40, Major Quentin, Woodleigh, Cheltenham; second of £20, Captain Young, Isle of Wight (Tradesman); third, C. Phillips, Mortlake, Lincoln.

RIDING HORSES.

Fine action and breed, exceeding 15 hands 2 inches.—First prize of £20, J. D. Murray, Carlton Club (Marvel); second of £10, W. H. Harrison, Market Harborough (Roebuck); third of £5, G. Gurnell, Brigg (Blackbird).

COVER HACKS AND ROADSTERS.

Weight carriers, not over 15 hands 2 inches.—First prize of £15, H. Frisby, 13, James-street, Buckingham Gate; second of £10, J. N. Beasley, Northampton (Filbert); third of £5, Captain Jay (Confidence).

PARK HACKS AND LADIES' HORSES.

Not exceeding 15 hands 2 inches.—First prize, of £20, Captain De Wingfield, Windsor (Conceit); second of £10, J. D. Murray, Carlton Club (Firefly); third, no award.

Not exceeding 15 hands 1 inch.—First prize of £20, P. Hornsby, Grantham (Hilda); second of £10, H. Frisby (Gameboy); third of £5, F. Jacobs (Desideratum).

PARK COBS.

High steppers, not above 14 hands 2 inches.—First prize of £20, J. Grout, Woodbridge (Tinker); second of £10, H. Frisby (Dunstan); third of £5, Lord Rosslyn, Euston Lodge, Dunmow (Burton). Highly commended: G. Gurnell's (Blanche).

STALLIONS.

Thorough-bred.—Prize, medal and £50, Lord Spencer, Althorp Park (Dalesman). Highly commended: W. Taylor Sharpe, Baumber Park, Horncastle.

Half-breds.—First prize, medal and £30, H. Holmes, Beverley (North Star); second, medal and £15, C. Beart (Ambition). Highly commended: Capt. Barlow, Woodbridge (Tom Brown).

Of any breed.—First prize, medal and £15, J. Grout, Woodbridge (Mercury); second, medal, J. Coker, Houghton-in-the-Dale (Norfolk cob).

HARNESS HORSES.

Not exceeding fifteen two (park action).—First prize, £15, C. C. Baynes, Portland Place (Columbine); second, £10, H. Frisby, Buckingham Gate (Dewdrop).

Not exceeding fourteen two.—First prize, £15, L. Lawson, Brook Street, Hanover Square (Flight); second, £10, L. Leese, West Cliff, Preston (Rattler); third, £5, H. Frisby (Dunstan). Highly commended: Lord Rosslyn (Beverley).

PHAETON HORSES.

Park action.—Prize, £10, Lord Carrington (Cannon Ball and Corporal Major). Commended: H. Frisby (Eclipse and Empress).

PONIES.

Stallions.—Medal and £10, Stud Farm, Cobham (Perfection).

In harness, not exceeding thirteen three.—First prize, £15, Stud Farm, Cobham (Kitty); second, £8, E. C. Hedges, High Street, Wapping (Emperor); third, £5, M. Kennedy, Hill Fort, Ulverstone (Bob). Class commended.

Pairs not exceeding fourteen two.—Stud Farm, Cobham (Dandy and Swell).

Tandem.—Prize, £5, C. Myring, Wallsall (Gipsy and Beauty).

According to *The Sporting Gazette*, "the show was not so good as we have seen in several previous years; and what may be termed the illegitimate business threatens to overwhelm in time its original character, as the jumping for prizes is brought forward to Wednesday, instead of being confined as previously to Friday. In fact, from the moment the judging is over, it is little better than a circus or country fair." Another sporting journal, *The Field*, appears to be even less pleased with the arrangements: "Things are little changed since last year"—"there is the same perplexity of numbering;" while "the managers of the Agricultural Hall have the questionable distinction of being the only body amongst the round of shows we are called on to visit, who act in an uncourteous spirit." In justice, however, we must say that our representative received every civility from Mr. Leeds and Mr. Layard.

WARWICKSHIRE CHAMBER OF AGRICULTURE.

—At a general meeting held in Warwick, last month, Mr. John Ford, of Leamington, the Chairman, read the report of the preliminary conference between three representatives of the Chamber and three representatives of the Agricultural Labourers' Union, which conference took place on the previous Saturday. Mr. Muntz, one of the three representatives of the Chamber, said it was the earnest request of the labourers that a copy of the rules should not be pressed for, as they were unsatisfactory and incomplete. A copy would, however, be forwarded as soon as possible. Mr. G. F. Muntz also moved the following resolution: "That observing the present position of the education of this country, and the increased means which are being provided for elementary instruction, the means for affording a suitable education for farmers' sons demands the immediate consideration of chambers of agriculture," which was adopted. The following resolution, proposed by the Chairman, and seconded by Sir N. C. Hamilton, was then unanimously agreed to: "That the Central Chamber be requested to postpone its decision on the subject of compensation for unexhausted improvements until the committees of the several associated chambers now sitting shall have reported."

THE BATH AND WEST OF ENGLAND SOCIETY, AND SOUTHERN COUNTIES ASSOCIATION.

MEETING AT DORCHESTER.

If somewhat one-sided, for the world ends at Weymouth, Dorchester is still very favourably placed for a meeting of the old Bath and West of England Society; nor is it by any means beyond the range of the Southern Counties. As the very titles, in fact, of the two leading lines would imply, the show was famously fed into from the quarters comprehended more especially within the scope of these united institutions, and the Great Western and South Western Railways, meeting as they do at Dorchester, furnish, most probably, the key to so successful a demonstration. For the Dorchester was not merely a large, but with, of course, here and there an exception, a good show; with not, perhaps, many entries of extraordinary excellence, but with most varieties of stock very creditably represented. Of the several breeds of cattle, whether Devons, Shorthorns, Herefords, Sussex, Jerseys, or Gurnseys, there was not a section but which was well filled; while some of the pig classes were above the average, and the weak place would no doubt be found amongst the sheep, where the Longwools, the Shropshires, and Oxfords were not numerous, and only occasionally meritorious. Implicitly following the fashion, by far the best site was allotted by the management to the Shorthorn ring, while the other breeds, such as the Herefords, Devons, and Sussex, were fairly or unfairly thrust aside into a hole and corner, which, considering the space available, might surely have been more becomingly mapped out. Indeed, one cattle ring might under the exercise of a little method, have joined on to the other, instead of the hapless reds and reds with white faces being left to play at hide-and-seek during the opening morning, whereas the Shorthorns had every opportunity for attracting attention and making a display. The entries of this favoured race were certainly much in excess of any other sort; but, as we said by telegram last week, these were not altogether of a very high character, and for first-class or first-prize animals we might turn as readily to the smaller show of Devons, where the winners make as much promise of holding their honours, if even some of the beaten beasts do not improve upon their places hereafter. Nevertheless, the opening class of all-aged Shorthorn bulls included unquestionably one of the best of his breed now about, Mr. Linton's well-known Lord Irwin, who has gone on capitally since last season, and never yet showed so well as he did at Dorchester. Thick, deep, and square, he is the very embodiment of good flesh levelly laid on, and without being a very gay bull, there can be few whose symmetry would prove better under careful examination. In an otherwise moderate class, it was a hundred to one on him from the moment he entered the ring; and yet at Guildford last year Lord Irwin was only commended amongst another moderate lot, the judges putting him out on the plea that "his head was very deficient in character." However, at the Wolverhampton Royal meeting another Bench placed the white first, as "a bull of excellent quality and character, a massive, well-fleshed animal of great growth and much promise." To our eye it seems that there is as much objection to the way in which Lord Irwin holds his head, as in the head itself, as he did not carry himself very smartly. It would be difficult, in fact, to imagine

two animals of the same breed of more different style and stamp than the first and second bulls in this class, the Earl of Warwickshire not having furnished since last year, but being a light, leggy, flashy animal, with little substance, but a corky airy gentleman, with the walk of a race-horse. "That's just the sort of bull to ruin any herd in England," said one man, and "How I should like to use him on my dairy cows!" said another; and the judges we are inclined to think differed as much as the public, although outside the ring the majority might have been the other way; as almost anything else in the class might "just as soon" have been second: the reserve Master Granville going on well but never a really high-class animal; Mr. Barnes' red, with a deal to like about him, or Mr. Paull's best of all the bulls the other day at Exeter, when we said, although he did beat all the Devons, Prize Taker "could never hold any great rank in good company." With the exception of Lord Irwin the class was no doubt altogether moderate, and it was very much a matter of fancy as to what might be next best, but we do not like Earl of Warwickshire so well as we did at a year younger, and we question whether he can ever furnish or drop to his leg. The Cornish Duke of Oxford, of whom we reported so favourably at Exeter, as the most promising Shorthorn in the show, although not pronounced to be the best, was again at the head of his class here, beating another of Mr. Linton's well known winners, Leeman, with growth, length, and touch all in his favour, so that the victory was worth something. There was moreover, a deal of talk about another yearling, Mr. Stratton's Jack Frost, a recent importation from Ireland, where he made a great impression at the Spring show, and an animal certainly with an admirable touch and as good a coat, with all over an air of high breeding, but standing badly behind, and hence perhaps his merely high commendation; the judges declining to notice anything further, although Lord Chesham appeared as an exhibitor with a sample purchase from the famous Holker Hall herd. Neither of the two prize-bull calves could win prizes under anything like a competitive examination; and it was quite a toss-up which won here, they were so equally indifferent.

In a fair class of cows, the best of all the breeds at Exeter, a small, delicate, but very bloodlike heifer, was now merely commended, with another of Mr. Hewett's entries, the first prize going to Flower Girl, an old favourite of ours, and a regular appearance at these and other meetings for some time past, of which she is beginning to show signs, although still a very handsome taking heifer. The second is somewhat coarse, and of indifferent quality, as her place on the list rather tells against the remainder of the class, which was no question excelled by the bevy of fair beauties selected from amongst the two-year-olds. There were Mr. Bruce Kennard's white Oxford Lady, of great breadth and substance, as really grand to meet; and young Mr. Stratton's comely and still improving white Innocence; and Messrs. Hosken's white Countess of Oxford, first at Exeter, but put out here from her steery head; and a bit of Booth in the Yorkshire white Lamwath Violet; as, amongst these four white ladies the two prizes and two

commendations were distributed, with two other commendations going to red and roan in a show of nine. And, no question, this was one of the crack classes of the day, and one that told—as, in fact, did all the Shorthorn doings here—how fast the late Richard Stratton's herd is coming to the front. He left the champion Smithfield ox as a legacy to one of his sons, and the two brothers were continually winning here, occasionally in the best of company. Thus, the two prize yearlings were both bred at Burderop, as some critics fancied the roan and others the red, Mr. Stratton himself preferring the second prize; but they did far more than merely beating each other, as they won in the best filled class on the ground, with five commendations appended, and still some of "the very best" commanding no notice whatever! Thus, Lord Dunmore, who came out for the first time as an exhibitor in England, sent on a pure Kirklevington, which had been bred at a great cost, and which only one of the judges ever put his hand on! And when the class left the ring with the high-bred Marchioness altogether undecorated, his Lordship entered it and mildly expostulated on the want of care evinced in passing over so precious an animal. But the Kirklevington must have something within which passeth show, for she is good neither to the eye nor the hand, as we have a suspicion that many of the long-priced Shorthorns we hear of would scarcely warrant the figure when again appraised on the show-ground. Lady Fraguants come few and far between. Like the bull-calves, the heifer calves were very moderate; but the Dunmore herd did reach to a second prize here, with a little fawn-like thing, whose pedigree is only to be traced by the *American Herd Book*, through Dukes of Thorndale and Frederick, and whose actual value as a consequence may be more easily imagined than calculated, although the judges here again did not think much of this stirring specimen. Still she has a deal more promise than the two-year-old.

Lord Falmouth does not much affect the shows of this Society, and his stock will be kept back for the Bodmin and Carmarthen Meetings. In his lordship's absence Mr. Davy had it very much his own way, taking five first prizes and one second in seven classes; but he did not enter anything amongst the all-aged bulls, where some very remarkable revision took place. Thus, Master Harry, a first prize at Guildford, and a second at Wolverhampton last year, and a first at Exeter the other day, and who has beaten Earl of Hexworthy when they met in 1871 and 1872, is here merely commended, while Hexworthy takes the first place, Mr. Farthing's bull having been put first at Exeter, and Mr. Jackman's third. We need scarcely say that we go altogether with the previous award, the main difference of opinion resting between Mr. Quartley and Mr. Risdon, the Devon judges of the two meetings. A very plain beast of Mr. Hamboro's breeding was put second, a fact which tends the more to assure one that the decisions can be nothing to go by. Duke of Flitton 8th, the best yearling, is bloodlike and straight, as shown at nearly a year's difference in age with the second, also second at Exeter, where Mr. Jackman won with a younger and a better bull, so that there should be something good out in this class at Cardiff. Of the bull-calves the judges would seem to think still more highly, as they added on two commendations in a small class; but the winner is but a plain one when put side by side with some of the Flittons, and the lot very moderate. By the way, Mr. Trevor Senior sets an admirable example here in calling a calf after himself, Sir Trevor, a system which would greatly simplify as well as connect the nomenclature of the Herd Books. Thus from Stowey we should trace Sir Walter, from Hoopen Lord Smith, and so forth.

In a small class of cows, the first and second were really charming, as there is scarcely any animal of sweeter appearance than a Devon cow not overdone, and both these were young, fresh, and comely. Mr. Davy's, at a year younger than the other, looked to rather want size, but she is a capitally ribbed, round, low, and lengthy cow that with time may reach her conqueror. Beyond the winner, Mr. Smith had another of his breeding in the class now the property of Mr. Senior, and a winner in her time at Leicester, as Picture was third at Oxford; but Daisy's day has gone, and her proper place in Bingley Hall, or at the Smithfield Club. Amongst the two-year-olds, Mr. George Turner's first and Mr. Farthing's second of a few weeks since were now quite out-classed, although Gay Lass has lost some of her good looks, apparently from forcing, as she is growing patchy and gaudy behind, and altogether too cloggy, to go on and preserve her fine Devon character. The yearling, Actress, on the contrary, has vastly improved since last year, while her old opponent, Fair Rosamond, has, as we protested at Exeter, fared but too well, and, as we foretold, has already been "put-out," Mr. Buller taking seconds in the heifer classes with two nice bloodlike young things, if not so meaty as it is the fashion to make them. Of the calves the second is better looking than the first, though she be a Temptress, but the class is a mistake. In his Guildford report, where these babies were first introduced, Colonel Luttrell says: "In spite of the various prejudices that exist against bringing into competition that which some are pleased to call the 'fatted calf,' this class will, in my humble opinion, tend to the improvement of breeding stock, for it must be admitted that if you want to arrive at anything like perfection in an animal you cannot begin at it too early. Now, look at the difference between two colts, the one kept well and the other starved till two years old; the one keeps growing and furnishing without a check, and becomes fit for the market at four years old; the other is always disappointing, for, in order to make up leeway, the unfortunate owner begins to graze him, by which means a deal of middle-piece is added—the limbs don't grow in proportion, and a heavy-topped, light-timbered brute comes into the market unsaleable, or perchance a flatcatcher." The illustration here is scarcely so happy, as the well-bred foal and the well-bred calf are, or should be, prepared for very different purposes, while it is even possible to overdo the foal, as many of the long-priced pampered yearlings go to pieces directly they are put into work, being merely fed up for sale as the calves are for show. However, the Colonel goes on to say, "We do not find that the animals exhibited in the calf classes at the Royal last year were deteriorated by their forward condition; on the contrary, out of the six animals placed at Oxford, three have taken prizes in advanced classes this year, and, as far as I can judge, will continue to do so." In his Dorchester report it is hoped that Colonel Luttrell may further point the argument by Gay Lass, a prize calf at Oxford, and Fair Rosamond, a prize calf at Wolverhampton. Of course, there are some animals which will stand this early preparation, while many, no doubt, are ruined in the process.

The two classes of Hereford bulls were very moderate, as shown in the facts that the always moderate Sir John was first in the all-aged class, and such a beast as the Duc d'Aumale second among the yearlings; while there were, moreover, only ten exhibited in the two classes. The best yearling, Lord Battenhall, is stylish and promising, with a good touch, but Sir John is a weak up-and-down animal, and Duc d'Aumale, if possible, growing plainer than ever. Mr. Fenn's calf is very taking, and better to the eye than the one put before him, a son of the prize bull Monaughty; while the cows, though short in

numbers, make out the best class. The handsome blood-like Duchess of Bedford, losing none of her sweet cow character, here beats her old rival Dahlia, as she always should have done, although the Duchess is beaten in turn by Irvington Rose, transplanted into Somersetshire, and a good well-ribbed cow, only a little short in her quarters; but the first and second are both capital specimens of the breed. In a class of four Mr. James' heifers are only passably good, and amongst the yearlings, where Mr. Morris is also first and second, the winners had a long lead of the others, Dolly Varden being a nice, straight, shapely heifer, and Madeline already a Royal second. The best calf has a capital touch, and the second is a daughter of Irvington Rose. They have, no doubt, got some good blood in Dorset and Somerset, from which counties the show of Herefords was mainly supplied, but the entry at all points was not one of any remarkable merit, as its strength depended mainly on the native Herefords, like the prize cows, Mr. Morris' heifers, and Mr. Fenn's calves. Two of the heifers were objected to as above the stated age, and one case is, we believe, still under consideration.

At Guildford the Sussex judge declared that he had never previously seen together so good a lot of his own county cattle; and if, as might have been expected, the Sussex were not quite so strongly represented at Dorchester, there was still a very creditable show of the sort. The best all-aged bull and the best cow neither reached to any higher rank than a commendation last year, and no question but there was more merit amongst the younger animals. With the exception of the winner, who has length and size, the old bulls were pretty generally coarse and common, showing but little signs of high breeding; whereas in the two younger classes the prizes, more particularly, were very blood-like, as improved almost up to the Devon standard of quality; and Mr. Turvill's yearling might have passed muster as a Devon outright. The first and second cows were both good, and Mr. Turvill's straight and good Colley surely deserved some commendation; while the best yearling heifer is of an especially nice kindly stamp, her good looks being pointed by her pedigree, as she is a daughter of the second prize cow. Mr. Tilden Smith's second here was only just out of the calf class, and thus exhibited at a disadvantage, being many months the junior of her competitors. Our impression, as derived from a look through these classes, would be that the Sussex stock has made some considerable advance as show cattle since the establishment of the Southern Counties Association.

The Jerseys were mostly bred in England, a practice which is against the theory of maintaining their fine pure character. Nevertheless there was a really good show, and the class of two-year-old heifers was generally commended, both the winners and the especially commended heifer having been calved in the county of Surrey. Still, the choice of all the Jerseys was Mr. Davis' beautiful cow, bred on the Forest, to which Mr. Digby's first prize Exeter cow was put second, so that the Shorthorn judges here held to the line very closely. Amongst the bulls, however, they went for mere size in preference to style, as the second prize was also a very plain animal, while Mr. Martin Hoare's thorough-bred looking yearling, an Island-born, was altogether passed over, probably from his tail being set on too high; but he was otherwise of finer Jersey stamp than anything in the class. Of the companion breed of Guernseys, we certainly never remember to have seen so commendable an exhibition, an absence of that uncomely coarseness and gauntness of frame being very noticeable. All the three classes of bulls, cows, and heifers, were well filled, and, according to the Islanders who had come

over with their cattle, as well judged. And it is only right that the Shorthorn men should know this, as no doubt any such association of duties must be something of "an experiment."

For a Society of the calibre of the Bath and West of England, the sheep show was pretty generally moderate, if not more decidedly indifferent. Some of the sections were still numerically well filled, while the competition in others was often enough confined to two or three flocks. Thus, there were only four exhibitors of Leicesters, where the prizes went almost precisely as at Exeter, with Mr. Potter and Mr. Tremaine as the chief winners, and Mr. Turner's delicate sheep less successful even than about home. The Cotswolds either on or off the show ground would seem to be declining, the great prices occasionally paid for really good rams notwithstanding, as these are said to be getting scarce, and hence the long figures recorded. The Kilkennys are good fair sheep, and Messrs. Wheeler's second prize two-shear, a broad-backed ram of some style and size, but the remainder were not worthy of notice, and the judges must have awarded the premiums very much upon compulsion. They divided as to the best pen of ewes, but over so wretched an entry it would have simplified the thing to have withheld the prizes altogether, when we remember the pens of Cotswold ewes which were once wont to be brought out. The Devon Longwools are rough useful cross-bred animals, whose repute is not likely to extend beyond the West, and with only two exhibitors one flock took all the prizes. Lord Chesham, again, had it almost as much his own way with the Shropshires, as his first shearing ram, by Mansell's No. 8, was perhaps the smartest sheep in the show—thick, true, and deep, as well as of fine character. The Chesham old sheep was a commended shearing at Wolverhampton, and only one pen of ewes was entered. There were but two exhibitors of Oxford Downs, where Mr. Treadwell's three shear is getting beyond show form, and his reaching to first place was somewhat of a surprise. Here also there was but one entry of ewes; and so far, no doubt, many a county meeting has offered a far better display than the great West of England and Southern Counties Association. The Dorset and Somerset horns were altogether more commendable, as no question these sheep are really deserving of their classes, having both use and appearance in their favour. Still, they are sheep which a general judge can scarcely be expected to be quite up in, and they were thought to have got wrong now over the best pen of ewes, whose horns were not properly or fashionably turned. There was a very numerous entry of Southdowns, but saving Mr. Rigden, there was not a flock up to its previous repute. Some of the Somerset and Dorset Downs have neither growth nor style, being mean and common-looking. Messrs. Heasman's sheep were not in show form; and Sir William Throckmorton's entries did not evince that continued improvement we had expected, there being a growing tendency with some of them to white faces. As a consequence Mr. Rigden had it all his own way, taking the four prizes and one reserve, with the five sheep he sent into the two classes, as the actual competition was entirely confined to the Hove rams. The size of the first shearing evidently turned the scale in his favour, for though a good sheep in many respects, he is not so bloodlike, or in other words, so fine a type of the Southdown as the merely commended ram, and any correction of this award would put the third sheep first, the first second, and the second third, although Mr. Rigden would we believe have himself put the last first and the first last. The decision over the old rams took a deal of time, the judges eventually resorting to the tape, although it looked from the first a certainty for the ram eventually pro-

nounced to be the better of the two. This is a remarkably handsome finely-grown sheep, well spread, but still full of fashion and of high quality; whereas the second is by no means so good looking, nor does he prove so well either by the hand or eye, whatever the tape may say. These were the only two rams Mr. Rigden entered in the old class, and hence the two commendations went to the Buckland flock, whose ewes were far better, and a smart sorty pen, against which there was virtually no opposition. The Hampshires, if useful enough, do not "improve" much out of their coarseness, and sour sorrowful countenances, and Mr. Rawlence has exhibited more taking lady-like ewes than either of the two pens which were here. As the judges say occasionally these are, no doubt, very good sheep "of their sort;" but it is difficult to fancy them after going through even so mediocre a display of Southdowns as were got together at Dorchester.

The pigs were as good as the sheep were bad, and with such exhibitors, almost all in force, as the Messrs. Howard, Duckering, and Wheeler, for whites; Messrs. Stewart, Humfrey, Bailey, and the Cirencester College for Berkshires; and Lord Portsmouth, the Sextons, Mr. Ware, Mr. Collier, Mr. Cornish, and others for blacks, it is not probable that the show, so various and still so excellent, can be surpassed either at Cardiff or Malton. The judges commended the whole class of small black sows, the whole class of small white breeding sows in pairs, the whole class of all-aged Berkshire boars; and highly commended the whole class of Berkshire sows. Naturally the big white pigs are somewhat out of their range so far West, and the premiums were pretty equally divided between the Messrs. Howard and the Messrs. Duckering, the long good high-quality Bedford pigs being still noticeably short of hair. The judges, however, looked to go for thin coats, as they put out nearly all Mr. Sexton's blacks, which were as comfortably covered as Polar bears; but the hair though well oiled and brushed was palpably coarse, threatening to show a strong black beard when boiled down into bacon; and though shapely pigs the Suffolks had no success but in a small but capital class of sows in pairs. The previous class of small black sows, shown singly, was thought to have been rather too much for the judges, as neither the first nor second were by any means perfect specimens, the one being short and bad in her quarters, and the other beginning with an unpardonably bad head, long and mean, which should surely have stopped her from finishing so high in a commended class. Lord Portsmouth's best boar at Exeter, by one of Mr. Sexton's breed, was here beaten by his own brother, and Mr. Smith's black Dorset, the best of his class, was like his namesake, The Claimant, an animal of extraordinary growth for his age. The Berkshires might be greeted with a continual note of admiration, as never were there so many good pigs from all quarters previously seen together; of high quality, but not refined out of their original character. Certainly the most promising pig in the show was Mr. Humfrey's young boar, long, straight, and stylish, as an unnoticed sow of Mr. Stewart's, one Duchess 2nd, should have been his becoming helpmate. She is so handsome, and altogether so much more sightly than another grand old sow of Mr. Stewart's placed first, that as exhibition stock it is difficult to understand the award, although it was rumoured there was a suspicion about the Duchess being a breeding animal. The Cirencester best boar, of the famous Sambo family, beat, as they would say on the turf, the Shrivensham pig very cleverly by his length, but the College second prize sow scarcely realised such a place in a highly commended class, as she could bear no comparison point for point

with the much despised Duchess. It would be interesting to learn hereafter from the judges' report or otherwise why this sow commanded no more attention than that she shared in the general compliment?

There were far more horses at Dorchester than at Guildford, but not better; as it is doubtful whether many of last week's winners will prove so well hereafter. The riding section, however, opened promisingly with one very charming chesnut mare, good looking and a capital mover, at least in her walk and hunting trot, as in fact the ring was too small to attempt to extend them, and one or two rather extraordinary feats of horsemanship occurred when the judges took to riding their fancies. A commonish brown mare, with an under-bred pedigree, looked for some time to dispute the point of precedence with the far more taking Mavourneen, and did finish second; while Mr. Michelmores's neat little mare was said to have been disqualified for spavins, although Professor Browne declined to commit himself to the publication of any such "a libel." The rest of the class was indifferent, and the Guildford and Exeter horse, Bismarck, won yet more easily in the four-year-old class, and was straightway put into price for Mr. Chaplin; his second in Devonshire being now displaced for a smartish grey, also from Mr. Festing's stable, and another importation from Ireland. The best three-year-old reached to nothing more than a share of the general commendation in that capital class of twos and threes at Exeter, but she was quite worthy of her place here, being a fashionable looking filly of a good colour, and with fine action; and here again there was nothing in the class to compare with the winner. The pedigrees of the yearlings sound too good to be worth much—for is Harkaway a thoroughbred horse? and the hack class was indifferent. The ponies were much better, the two prize grey galloways, with another good-looking grey to back them, being particularly clever, while every one of the smaller ponies received some notice from the judges, the two ladies taking the prizes.

With the exception of the two black mares and the pairs in work, the agricultural or cart-horses were indifferent. The best stallion was the best two-year-old at Southampton, and he has since been winning about home, but he had nothing to beat here beyond the Warwickshire Nonpareil, considered by many the better of the two. There were in all but three entries of two-year-old colts and three of two-year-old fillies, and as Messrs. Bennett and Howard have had in their time a deal of practice in estimating the merits of cart-horses as well as of "nags," it really seemed scarcely necessary to make up another Quorum to try such trivial cases. As will be seen by the report of the last Council meeting, the Royal Society proposes to make the judges do more work "for their money."

PRIZE LIST.

DEVONS.

JUDGES (and for Sussex and Herefords).

J. Risdon, Monk Okehampton.

J. Pitcher, Hailsham, Sussex.

W. Taylor, Thinghill Court, Hereford.

Bull, exceeding two and not exceeding four years old.—First prize, £20, J. Jackman, Hexworthy, Launceston (Earl of Hexworthy); second, C. Hamboro, M.P., Milton Abbey. Highly commended: W. Farthing, Stowey, Bridgewater (Able). Commended: W. Farthing (Master Harry).

Bull, not exceeding two years old.—First prize, £25, J. Davy, Flitton, North Molton (Duke of Flitton 8th); second, J. Jackman (Duke of Cornwall).

Bull calf.—First prize, £10, J. Davy (Duke of Flitton 9th); second, W. Smith, Hoopern, Exeter (Johnny Exeter). Highly commended: J. A. Smith, Bradford Peverell (Duke of York). Commended: W. Farthing.

Cow in calf or in milk.—First prize, £15, J. A. Smith

(Picture); second, J. Davy (Temptress). Highly commended: J. Gould, Pottimore (Spot).

Heifer in calf or in milk.—First prize, £15, J. Davy (Gay Lass); second, J. H. Buller, Downes, Crediton.

Heifer, not exceeding two years old.—First prize, £10, J. Davy (Actress 5th); second, J. H. Buller, Downes, Crediton.

Heifer calf.—First prize, £10, J. Davy (Temptress 3rd); second, J. A. Smith (Picture).

HEREFORDS.

Bull, exceeding two and not exceeding four years old.—First prize, £20, H. N. Edwards, Broadward, Leominster (Sir John); second, W. C. Davy, Horn Park, Beaminster (Chevalier).

Bull, not exceeding two years old.—First prize, £25, J. Harding, Bicton, Salop (Lord Battenhall); second, J. Baldwin, Luddington (Duc d'Aumale).

Bull calf.—First prize, £10, W. Evans, Landowlais; second, T. Fenn, Stonebrook House, Ludlow, Usk (King Severus).

Cow in calf or in milk.—First prize, £15, W. B. Peren, Compton House, South Petherton (Ivington Rose); second, T. Fenn, (Duchess of Bedford 6th).

Heifer in calf or in milk.—First prize, £15, J. W. James, Mappowder Court, Blandford (Ruby); second, J. W. James (Little Nell).

Heifer, not exceeding two years old.—First prize, £10, J. Morris, Town House, Madley (Dolly Varden); second, J. Morris, (Madeline).

Heifer calf.—First prize, £10, T. Fenn (Queen of the Teine); second, W. B. Peren (Rosalie).

SUSSEX.

Bull, exceeding two and not exceeding four years old.—First prize, £20, J. Turvill, Hartley Park Farm, Alton, Hants (Young Sutton); second, R. Mills, Theale Farm, Slinfold, Horsham (Bismarck).

Bull, not exceeding two years old.—First prize, £25, J. Turvill (Hartley); second, W. Hampton, Applesham, Shoreham (Grand Duke 2nd).

Bull calf.—First prize, £10, E. and A. Stanford, Eatons, Ashurst, Steyning; second, J. Turvill (Shermanbury).

Cow in calf or in milk.—First prize, £15, J. and A. Heasman, Angmering, Arundel (Southampton); second, A. Agate, West-street, Horsham (Actress).

Heifer in calf or in milk.—First prize, £15, E. and A. Stanford, Eatons, Sussex; second, J. Turvill (Cherry).

Heifer, not exceeding two years old.—First prize, £10, A. Agate (Actress 3rd); second, T. Smith, Knell, Beckley, Ashford (Young Primrose).

Heifer calf.—First prize, £10, G. Smith, Paddockhurst, Crawley, Sussex (Gipsy 2nd); second, J. S. Oxley, Fen Place, Worth (Betsy).

SHORTHORNS.

JUDGES (and for Channel Islands).

C. Howard, Biddenham, Bedford.

H. Aylmer, West Dereham, Norfolk.

M. Savidge, Sarsden, Chipping Norton.

Bull, exceeding two and not exceeding four years old.—First prize, £20, W. Linton, Sheriff Hutton, York (Lord Irwin); second, G. Garne, Churchill Heath, Chipping Norton (3rd Earl of Warwickshire). Highly commended: J. Stratton, Alton Priors, Marlborough (Master Granville); J. W. Paull, Knott Oak, Ilminster (Prize Taker). Commended: C. A. Barnes, Charleywood, Herts (Lord Eglington); R. Stratton, The Duffryn, Newport (Saunterer).

Bull, not exceeding two years old.—First prize, £25, W. Hosken and Son, Loggan's Mill, Hayle, Cornwall (Duke of Oxford); second, W. Winton (Leeman). Highly commended: J. Stratton, Alton Priors (Jack Frost).

Bull-calf.—First prize, £10, J. A. Mumford, Brill House, Thame (Notley); second, T. Garne and Son, Broadmoor, Northleach (Baron of Knowlmore).

Cow in calf or in milk.—First prize, £15, R. Stratton, The Duffryn, Newport (Flower Girl); second, G. Garne (Princess Alexandra). Highly commended: Rev. R. B. Kennard, Marnhull, Blandford (Ada); G. Garne (Bonny Lass). Commended: W. H. Hewett, Norton Taunton (Violet); W. H. Hewett (Nelly).

Heifer in-calf or in-milk.—First prize, £15, J. Stratton, Alton

Priors (Innocence); second, Rev. R. B. Kennard, Marnhull (Oxford Lady). Highly commended: G. Garne (Lady Bird); Rev. R. B. Kennard (Queen Anne). Commended: H. F. Smith, Lamwath House, Sutton, Hull (Lamwath Violet); W. Hosken and Son (Countess of Oxford 2nd).

Heifer, not exceeding two years old.—First prize, £10, J. Stratton, Alton Priors (Village Rose); second, J. Stratton (Mabel). Highly commended: G. Garne (Butterfly Duchess); G. Garne (Partridge). Commended: C. A. Barnes (Julietta); J. W. Larking, Ashdown House, East Grinstead (Rose of Autumn); T. Garne and Son (Protégé).

Heifer calf.—First prize, £10, J. W. Larking (Rose of Summer); second, Lord Dunmore, Dunmore, Stirling (Red Rose 4th). Commended: H. D. Barclay, Eastwick, Leatherhead (Faustitas).

CHANNEL ISLANDS.

JERSEYS.

Bull, exceeding one year old.—First prize, £10, Rev. J. S. Horner, Mells, Frome (Ranger); second, G. Simpson, Wray, Reigate (Favourite). Highly commended: G. D. W. Digby, Sherborne Castle (Midshipman). Commended: G. Simpson (Gipsy Boy).

Cow, in calf or in milk.—First prize, £10, J. D. Sherston, Bramshaw, Hants (Fanny); second, G. D. W. Digby (Diamond). Highly commended: G. D. W. Digby (Miss Edith). Commended: Mrs. L. Malcolm, Beechwood, Hants (Bonnie).

Heifer, not exceeding three years old.—First prize, £10, G. A. Fuller, Dorking (Cowslip); second, G. Simpson (Queenie). Highly commended: G. Simpson (Lizzie).

The class commended.

GUERNSEYS.

Bull, exceeding one year old.—First prize, £10, H. Compton, Lyndhurst (Rufus); second, C. J. Radcliffe, Hyde, Wareham (Sir William). Highly commended: E. A. Sanders, Stoke, Exeter (Victor Emmanuel). Commended: C. Le Page, Guernsey (Billy); J. Le Page, Guernsey (Duke); J. James, Guernsey (Lord of the Isles).

Cow, in calf or in milk.—First prize, £10, H. Compton (Cowslip); second, U. Wakeford, Guernsey (Lady Jane). Highly commended: J. James (Valentine); C. S. Glyn, Cerne Abbas, Dorset (Guernsey Lily).

Heifer, not exceeding three years old.—First prize, £10, C. Le Page (Guernsey Lily); second, D. Le Cheminant, Guernsey (Guernsey Lily). Highly commended: U. Wakeford (Duchess); E. A. Sanders (Lily of the Valley). Commended: J. James (Beauty).

DAIRY CATTLE.

Cows.—First prize, £10, J. A. Smith (Devons); second, N. Benjafield, Short's Green Farm, Motcombe (Shorthorn and Hereford cross).

SHEEP.

LEICESTERS.

JUDGES (and for other Long-wools and Oxfords).

R. J. Newton, Campsfield, Woodstock.

J. Carpenter, Dawlish.

Yearling ram.—First prize, £10, J. Tremaine, Polsue, Grampound, Cornwall; second, J. Tremaine. Highly commended: J. Tremaine.

Ram of any other age.—First prize, £10, T. Potter, Yellowfore, Thorverton, Cullompton; second, T. Potter. Commended: G. Turner, Bramford Speke, Exeter.

Yearling ewes.—First prize, £10, J. Tremaine; second, G. Turner.

COTSWOLDS.

Yearling ram.—First prize, £10, the Executors of the late T. Gillett, Kilkenny Farm, Faringdon, Oxford; second, Royal Agricultural College Farm, Cirencester.

Ram of any other age.—First prize, £10, the Executors of the late T. Gillett; second, J. Wheeler and Sons, Long Compton, Shipston-on-Stour, Warwick. Commended: The Executors of the late T. Gillett.

Yearling ewes.—First prize, £10, C. Spencer, Gileston, Cowbridge, Glamorganshire; second, Royal Agricultural College Farm, Cirencester.

DEVON LONG-WOOLS.

Yearling ram.—First prize, £10, R. Corner, Torweston, Williton; second, R. Corner.

Ram of any other age.—First prize, £10, R. Corner; second, R. Corner. Highly commended: R. Corner.
 Yearling ewes.—First prize, £10, R. Corner; second, R. Corner.

OXFORDSHIRE DOWNS.

Yearling ram.—First prize, £10, J. Treadwell, Upper Winchendon, Aylesbury; second, A. F. Milton Druce, Twelve Acres, Eynsham.

Ram of any other age.—First prize, £10, J. Treadwell; second, J. Treadwell. Commended: A. F. Milton Druce.

Five yearling ewes.—Prize, £10, A. F. Milton Druce.

SOUTHDOWNS.

JUDGES (and for other Short-wools).

F. Budd, Hatch Warren, Basingstoke.

E. Little, Lanhill, Chippenham.

H. Woods, Merton, Tetford.

Yearling ram.—First prize, £10, W. Rigden, Hove, Brighton; second, W. Rigden. Commended: W. Rigden.

Ram of any other age.—First prize, £10, W. Rigden; second, W. Rigden. Highly commended: Sir W. Throckmorton, Bart., Buckland, Faringdon, Berks. Commended: Sir W. Throckmorton.

Pen of five yearling ewes.—First prize, £10, Sir W. Throckmorton; second, H. D. Barclay, Eastwick, Leatherhead. Highly commended: H. Gorrings, Ashcroft, Kingston-by-Sea, Shoreham.

HAMPSHIRE DOWNS.

Yearling ram.—First prize, £10, J. Rawlence, Bulbridge, Wilton; second, A. Morrison, Fonthill House, Tisbury. Commended: R. Coles, Middleton, Warminster.

Ram of any other age.—First prize, £10, A. Morrison; second, W. F. Bennett, Chilmark, Salisbury. Highly commended: J. Rawlence.

Five yearling ewes.—First prize, £10, J. Rawlence; second, J. Rawlence. Highly commended: T. C. Saunders, Watercombe, Dorchester. Commended: W. E. Fitt, Littleton, Winchester.

SHROPSHIRE.

Yearling ram.—First prize, £10, Lord Chesham, Latimer, Chesham, Bucks; second, Lord Chesham.

Ram of any other age.—First prize, £10, Lord Chesham; second, R. White, East Burton, Wareham.

Pen of five yearling ewes.—Prize, £10, Lord Chesham.

SOMERSET AND DORSET HORNS.

Yearling ram.—First prize, £10, H. Mayo, Coker's Frome, Dorchester; second, J. Culverwell, Claveshay, North Pether-ton. Highly commended: H. Mayo.

Ram of any other age.—First prize, £10, H. Farthing, Nether Stowey, Bridgwater; second, H. Farthing. Highly commended: H. Mayo.

Five yearling ewes.—First prize, £10, J. Culverwell; second, H. Mayo. Highly commended: H. Mayo. Commended: W. Parmiter, Melplash Court, Bridport.

EXMOOR AND OTHER MOUNTAIN.

Ram of any age.—First prize, £10, J. Quartley, West Molland, South Molton, Devon; second, J. Davy, Flitton. Commended: J. Quartley.

Pen of five ewes of any age.—First prize, £5, J. Quartley; second, J. Quartley. Commended: Sir T. D. Acland, Bart., M.P., Holnicote, Minehead, Somerset.

HORSES.

FOR AGRICULTURAL PURPOSES.

JUDGES.—A. Lovibond, Bridgwater.

J. Wood, Umberstone, Grimsby.

Stallion, foaled before 1870.—First prize, £25, J. Feaver, Stoney Littleton, Bath (Littleton); second, W. Wynn, Cran-bill Leys, Grafton, Alcester (Nonpareil).

Stallion, foaled in 1870.—First prize, £20, W. Thom, God-ney Farm, Wells (Young Robin Hood); second, E. and A. Stanford, Ashurst, Eatons, Steyning (The Prince).

Mare and foal, or in-foal.—First prize, £15, V. B. Watts, Melcombe Horsey, Dorchester (Rose); second, W. Stanford, Charlton Court Farm, Steyning (Jewel). Highly commended: W. Stanford (Brown).

Filly, foaled in 1870.—First prize, £15, E. and A. Stan-ford (The Flower); second, N. Dyke, Brains Farm, Wincau-ton (Bonnie).

Pair of draught horses.—First prize, £10, H. Mayo. Commended: G. and D. Taylor, King-street, Fordington.

RIDING HORSES.

JUDGES.—J. E. Bennett, Bosworth Grange, Rugby.

R. G. F. Howard, Temple Bruce, Lincoln.

HUNTERS.

Mare or gelding, foaled before the 1st January, 1868.—First prize, £25, H. B. Festing, Maiden Bradley, Bath (Mavour-neen); second, E. C. Legg, Coombe Down, Beaminster (Partiality). Highly commended: Rev. T. H. House, Ander-son Rectory, Blandford.

Mare or gelding, foaled in 1868.—First prize, £25, G. B. Battams, Kilworthy, Tavistock (Bismarck); second, H. B. Festing (Shillala).

Filly or gelding, foaled in 1869.—First prize, £10, G. B. Battams (Brunette); second, Mrs. L. Malcolm, Beechwood, Lyndhurst (Siesta). Highly commended: J. Sly, Dorchester, (Primrose).

Colt or filly, foaled in 1871.—First prize, £10, G. W. Homer, Athelhampton Hall, Dorchester (Mischief); second, J. Joyce, Wadham, Knowstone, South Molton (Bird-on-the-Wing). Commended: E. and A. Stanford.

HACKS.

Mare or gelding, not exceeding 15 hands high, calculated to carry not less than 12 stone.—First prize, £15, E. A. Sanders, Stoke House, Exeter (Cherrystone); second, J. Michelmore, Berry Pomeroy, Totnes (Gay Lass). Commended: G. Symonds, Sydling St. Nicholas, Dorchester (Little Star), T. W. Shettle, Bradford Farm, Wimborne.

PONIES.

Not exceeding 14 hands high.—First prize, £10, J. Gif-ford, North Cadbury, Castle Cary (Little Jane); second, W. Perkins, Bowling-green House, Southampton (Queen). Com-mended: G. A. Prevost, Came House, Dorchester (Peru); W. Fookes, Tarrant Monkton, Blandford.

Not exceeding 13 hands high.—First prize, £10, Mrs. A. Lewis, Millbrook Lodge, Millbrook (Garibaldi); second, C. J. T. Hambro, M.P. (Prince Charlie). Commended: Mr. Parmiter, Wareham (Little Swift), H. W. Hawking, Dor-chester (Dolly Varden).

PIGS.

JUDGES.—S. Druce, Eynsham, Oxon.

J. S. Turner, Chyngton, Sleaford.

LARGE BREED.

Boar above one year, and not exceeding two.—First prize, £5, J. and F. Howard, Britannia Farms, Bedford (Victor 3rd); second, R. E. Duckering and Son, Northorpe, Kirton Lindsey.

Boar, not exceeding one year old.—First prize, £5, R. E. Duckering and Son; second, R. E. Duckering and Son.

Breeding sow in farrow, or with her litter.—First prize, £5, J. and F. Howard, (Duchess); second, R. E. Duckering. Commended: John Wheeler and Sons, Long Compton, Ship-ton-on-Stour (Daisy).

Two breeding sows, not exceeding nine months.—First prize, £5, R. E. Duckering and Son; second, R. E. Duckering and Son.

SMALL BREED (BLACK).

Boar, above one year and not exceeding two.—First prize, £5, J. A. Smith, Bradford Peverell (The Claimant); second, W. M. Ware, Newham House, Helston (Onyx). Highly commended: W. M. Ware (Alpha).

Boar, not exceeding one year.—First prize, £5, W. F. Collier, Woodtown, Horrabridge; second, Earl of Portsmouth, Eggesford House, Wembworthy (General). Highly com-mended: T. Taylor, Pool Farm, Taunton.

Breeding sow in farrow, or with litter.—First prize, £5, T. R. Cornish, Wolf's Grove, Bishopsteignton, Teignmouth (Princess); second, N. Benjafield (Motcombe's Pride). Highly commended: T. Taylor. The class commended.

Two breeding sows, not exceeding nine months.—First prize, £5, G. M. Sexton, Wherstead Hall, Ipswich; second, J. Tremaine, Polsue. Highly commended: T. R. Cornish; Earl of Portsmouth.

SMALL BREED (WHITE).

Boar, above one year and not exceeding two.—First prize, £5, R. E. Duckering and Son, Northorpe, Kirton Lindsey; second, J. Wheeler and Sons.

Boar, not exceeding one year.—First prize, £5, Lord Rendleham, Rendlesham Hall, Woodbridge (The White Boy); second, R. E. Duckering and Son. Highly commended: J. Wheeler and Son (Young King).

Breeding sow in farrow, or with litter.—First prize, £5, R. E. Duckering and Son; second, J. Wheeler and Sons (Miss Jewel). Highly commended: J. C. Andrews, Tail Mill, Crewkerne.

Two breeding sows, not exceeding nine months.—First prize, £5, R. E. Duckering and Son; second, R. White, East Burton, Wareham. Highly commended: J. Wheeler and Son (Two Graces). The class commended.

BERKSHIRE.

Boar, above one year and not exceeding two.—First prize, £5, Royal Agricultural College Farm, Cirencester (Lord Liverpool); second, H. Humfrey, Kingstone Farm, Shivenham (Maple Grove). Highly commended: Lord Rendlesham (Dundonald). The class commended.

Boar, not exceeding one year.—First prize, £5, H. Humfrey; second, A. Stewart, Saint Bride, Gloucester. Highly commended: J. Wheeler and Sons (Nimrod).

Breeding sow in farrow, or with litter.—First prize, £5, A. Stewart (Bella); second, Royal Agricultural College (Stumpy). Very highly commended: H. Humfrey (for two sows). The class highly commended.

Pen of two breeding sows, not exceeding nine months.—First prize, £5, A. Stewart; second, J. Wheeler and Sons (Polly 2nd, Kate 2nd). Highly commended: Royal Agricultural College (Topsy Family). Commended: Rev. H. G. Bailey (for two entries).

VETERINARY INSPECTOR.—Professor Browne.

POTTED BUTTER.

Special prize for residents in Dorset.—First prize, £5, J. Saunders, Frome Saint Quintin, Dorchester (produce of May, 1872); second, J. T. Homer, Hensworth, Wimborne (produce of May, 1872).

HORSE SHOEING.

Twenty entries: first prize, R. Slocombe, of Ilminster; second, J. W. Batten, Chard; third, J. Way, Piddledinton. Highly commended: J. C. Upshall, Cattistock; T. Hurrell, Dorchester; C. Way, Cerne.

THE IMPLEMENTS.

A complete list of the exhibitors of implements at the meeting, together with an enumeration of their several entries would be, perhaps, the fairest criticism which under the circumstances could be given. According to the Council the show of machinery on the ground was not so large as it has been, while the field-trials attracted as little attention as ever. The steam cultivators at work included Howard's round-about steam apparatus, driven by a ten-horse power portable engine; Amies and Barford with a Smith's improved set, with Campain's anchor; the implements used being a three-furrowed plough, a turning cultivator, and a combined roller, grubber, and harrow invented by Williams, Blaydon. Fowler and Co. exhibited a pair of engines working on the direct system with a wide cultivator.

The following firms worked self-delivery reapers on a good strong upstanding crop of rye: Samuelson, Howard, Hornsby, Burgess and Key, Kearsley, Picksley, Sims, and Co., Wood, and Brigham and Bickerton.

Mowing machines were worked by Samuelson, Hornsby, Burgess and Key, Wood, Reading Iron Works, Picksley, Brenton, and Brigham.

Manual delivery reapers were worked by Samuelson, Picksley, Wood, Brenton, Brigham, and Mattison.

In the steam-plough field Howards worked their new double-furrow plough and subsoiler; and Hornsby, Fowler, and Davey also showed double ploughs in operation; Davey, with a new turnover implement, the simplicity of which, in construction and readiness in action, obtained some merited commendation.

The grass crops were operated on by haymakers from Howard, Boby, and Reading Iron Works.

The annual meeting of the West of England Society raises again and again the question as to the value of premiums as advertisements; but it will be seen that Messrs. Garrett go a step further in our paper of this day when they say, "Unfortunately, the cost of coal, iron, and other materials has advanced so much this year, that all makers are obliged to put up their prices for implements, &c. Now it seems to us that if the manufacturers' expenses can be reduced in any way this year, so as to prevent any unnecessary increase of prices, it will be greatly to the advantage of the farmers; with this object in view, we naturally think of the heavy annual expenditure which agricultural engineers incur in attending the Royal and other agricultural shows. Those large firms who go in for competition for prizes and attend many country meetings could reckon their outlay by thousands of pounds yearly, all of which, of course, the farmers must indirectly pay. Will our agricultural friends be content to diminish the outlay this year? If not, and no other means can be found for reducing expenses, the prices of agricultural implements and machinery must be again advanced. For our parts, we mean to try the experiment of going to no expense this summer about shows." No question if some of the smaller and less known firms fall in with this proposition and decline to exhibit there will be a great saving in coal, iron, and other materials.

THE ANNUAL MEETING

was held on the Tuesday, the Duke of Marlborough, K.G., the President, in the chair.

The report of the Council stated that since the meeting at Guildford, honoured for the first time by the presence of royalty, many members, distinguished not less in public life than by their devotion to the interests of the Society, had been removed by death. Foremost among these must be mentioned the late Sir Thomas Dyke Acland, Bart., who so long ago as the year 1853 held the office of President, and who, ever afterwards, until the time of his death, was a munificent contributor to the Society's funds, and took a lively interest in its proceedings. By the deaths of Sir Peregrine Palmer Acland and Mr. E. Ayshford Sanford, the Society has lost two highly-esteemed vice-presidents, and by the death of Mr. R. G. Badcock, of Taunton, it has sustained the double loss of a most zealous and efficient vice-president and treasurer, of more than twenty years' standing. Three vacancies have also occurred in the Council by the deaths of Mr. Richard Stratton, Burderop, Swindon; Dr. Brent, of Woodbury, near Exeter; and Mr. Edmund Francis Mills, of Orcheston St. Mary, Devizes. The vacancies thus occurring have been filled by the appointment of Mr. Henry Badcock, as treasurer; Mr. Charles Edwards, of Wrington, a steward of poultry; and Mr. Henry Duncan Skrine, of Warleigh, near Bath; Mr. Henry Mayo, of Coker's Frome, Dorchester; and Mr. James Quartly, of Molland, South Molton, as members of Council. There are at present on the books of the Society 90 life members, 137 governors, and 848 annual members—total, 1,075. The funded stock of the Society, amounting to £7,200, equivalent, at 93½ Three per Cent. Consols, to £6,732, remains virtually unaltered since the last annual meeting. The entries of stock, poultry, implements, art and horticultural specimens, fully justify the discretion exercised by the Council in determining to visit, for a second time, the important agricultural district of which Dorchester is the centre. It is to be regretted that many horses intended for exhibition have again been excluded from the show in consequence of their owners not complying with prescribed regulations. No entries can be received after the exact date announced to the public; and no animals can be admitted as extra stock. For the special prizes for the encouraging proficiency in horse-shoeing, now given for thirteen years in succession by Mr. Miles, of Dixfield, Exeter, there are twenty competitors; and the members of the Society are invited to concur in a special vote of thanks to that gentleman for his continued liberality. The implement department, though less in magnitude than at Guildford, contains 51

special compartments devoted to machinery in motion; and nearly all the leading firms in England are well represented by their staple productions, the number of exhibitors being 169, whilst upwards of 3,000 articles are enumerated in the Society's catalogue. The publication of the *Journal* will take place as soon as deemed compatible with its completeness as a record of the proceedings of the year. The Council have granted a complete set of the *Journal* from the year 1852 to the present time, in recognition of the establishment of an agricultural chair in Harvard's College, U.S.; and also a similar set in aid of the establishment of a new free library at Chicago, and as a token of the Society's sympathy in reference to the recent calamitous fire. The Council, having regard to the usage of the Society that the president for any year shall be non-resident in the county wherein the annual meeting is held, recommend that the Earl of Mount Edgcumbe be requested to occupy the office of president for the year ending with the Plymouth Meeting, and that the following members of the Society be appointed members of the Council, to supply vacancies occurring by retirement, by rotation, or other causes:

Eastern Division—Clement Bush, Weston, Bath; Thomas Danger, Rowford Lodge, Taunton; Thomas Duckham, Baysham Court, Ross; John Gray, Kingweston, Somerset; James Hole, Knowle House, Dunster; J. E. Knollys, Fitzhead Court, Taunton; R. Neville, Butleigh Court, Glastonbury; Gabriel S. Poole, Brent Knoll, Weston-super-mare; Herbert Williams, Stinsford, Dorchester.

Western Division—The Hon. and Rev. J. T. Boscawen, Lamorran, Probuss; John Tanner Davy, Rose Ash, South Molton; John Daw, Exeter; R. R. M. Daw, Exeter; Charles Gordon, Wiscombe Park, Honiton; J. H. Kennaway, M.P., Escott, Ottery St. Mary; James Quartly, Molland, South Molton; Rev. A. Thynne, Penstowe, Stratton, Cornwall; E. U. Vidal, Cornborough, Bideford.

Southern Division—A. F. M. Druce, Twelve Acre Hill, Eynsham; Arthur Glenfell, Shalford, Guildford; Wyndham Portal, Malshanger, Basingstoke; W. Rigden, Hove Farm, Brighton; George Shackel, Erleigh Court, Reading; W. B. Simonds, M.P., Abbott's Barton, Winchester; J. R. Stebbing, St. Andrew's Lodge, Southampton; J. S. Turner, Chyngton, Seaford.

Elected without reference to Districts—James D. Allen, Pyt House, Tisbury; J. Webb King, West Everley, Marlborough;

Henry Robertson, Over Stowey, Bridgwater; H. D. Skrine, Warleigh, Bath; E. W. Williams, Herrington House, Dorchester; Richard Wippell, Rudway, Silverton.

On the motion of Sir J. T. B. DUCKWORTH, seconded by Mr. J. FLOYER, M.P., the Report was adopted.

Mr. R. K. MEADE-KING submitted for the office of president the name of the Earl of Mount Edgcumbe.

Colonel ARCHER seconded the motion, which was carried.

On the motion of Sir E. HULSE, seconded by Mr. R. BREMRIDGE, the vacancies in the Council were filled up as recommended.

Some formal votes of thanks were passed, including one to the President.

The Duke of MARLBOROUGH, in responding, said there was one point on which he must say a few words, and this was that he considered it to be a matter of great congratulation that the effect of the Society's show being held at Dorchester had enabled a most industrious and thriving part of the British dominions, and one not altogether so much visited as it might be, the Channel Islands, to show some highly important and valuable stock. He saw that the entries for these stock were only less by five than those for Shorthorn cattle, which was the most important and popular breed in the whole country. When they saw the great care which was taken in the Channel Islands to keep their stock pure, and what a valuable breed they were for dairy purposes, it was a source of congratulation that the Society's meeting being held here had enabled those places to send such a large and magnificent contribution to the exhibition this year.

ADMISSIONS AND RECEIPTS, 1870, 1871, 1872.

Days.	TAUNTON, 1870.		G'LD'FORD, 1871.		D'ACH'S'S, 1872.	
	Ad-mis-sions.	Receipts.	Ad-mis-sions.	Receipts.	Ad-mis-sions.	Receipts.
		£ s. d.		£ s. d.		£ s. d.
Monday.....	1,240	148 18 0	1,714	283 7 6	845	183 0 0
Tuesday.....	4,402	532 12 6	3,034	373 11 0	3,462	429 10 6
Wednesday..	12,310	1483 17 0	5,908	727 0 0	8,484	1026 16 6
Thursday....	27,400	1323 16 0	16,541	776 2 0	14,489	700 16 0
Friday	6,253	296 11 0	6,863	324 10 6	7,001	331 4 0
Totals.....	51,605	3785 14 6	34,060	2489 11 0	34,281	2671 7 0

ESSEX AGRICULTURAL SOCIETY.

MEETING AT HALSTED.

Given—a fixture in an out-of-the-way corner of the county, and at a town of curiously limited capabilities in the way of accommodation; a threatening morning which gradually culminates in an unmitigated downpour; a branch line which sooner or later lands the hapless visitor and takes him back again, according to our sporting contemporary, *The Field*, after the following pleasing fashion: "The railway arrangements were of the most disgraceful character, one hundred and sixty passengers being turned out into the rain on their return, at Chapell, three miles from Mark's Tey, and kept there two hours, instead of being conveyed to the main line and forwarded to their destination." Even further the show was pretty generally inferior, as in most sections a decided decline from the Romford Meeting of last year. To begin with the Shorthorns, there was a sad falling-off in the quality of the stock exhibited; and the meeting missed its old friend Mr. Clayden, and Messrs. Macintosh and Christy. There are some other breeders coming on, such as Messrs. Clear, Green, Chaplin, Piggot, and others; but hitherto they have not availed themselves of such blood as the foregoing. For the Challenge Cup there was numerically a strong entry, but only one leading animal. It was very clear with just one march round the ring that the white Lord Irwin was too formidable

for his companions. Mr. Foljambe sent a cow and heifer of considerable merit, although the young one still retains that hardness of touch which characterized her as a calf in 1870. From foot-and-mouth disease at Burghley, Telemachus could not put in an appearance, and the great interest of the thing evaporated. The bull, cow, and offspring class attracted a good deal of attention; but all the entries did not appear in the ring, the foot-and-mouth here, as in other classes, thinning down the numbers. Mr. Catchpole took the prize, the bull being a winner at Birmingham in 1871, and bred by the Rev. Mr. Kennard. With one exception the offspring were very inferior. Mr. Slater's entries were not sent, but the dairy classes were well filled with some very useful animals; while the Havering Park Challenge Cup promises to last as long as the Society. The sheep, as usual, were not very numerous, as this is not much of a breeding county. Mr. Green, of Stadishall, showed some good Black-faces not very fashionable out of the eastern counties, and Audley End took nearly all the Down awards with little trouble; while Mr. Giblin had most of the cross-breeds to himself. The pigs were very good, where Mr. Griggs, of Romford, won nearly everything with Berkshires—"and a very good lot," said the judges. The cart-horses were perhaps an average show, with the stallions by far the weakest section;

while the mares and foals were very good, and young mares, one two and three years old, promising. Some out-of-the-county mares and foals showed well; but the £300 purchase at the Capon sale last year looked dear and altogether out of form. Among the riding-horses were some very useful animals, set off by a vast proportion of bad. Fandanguero, bought at Sir Tatton Sykes' sale by the late Mr. T. Crisp, takes £65, besides the fifty guinea Cup; and Barker, the dealer, of Ingatstone, wins most of the prizes for hunters and hacks; with nags which had evidently been well rattled by "the London division." Major Barlow's Beckford, a prize horse of last year, was disqualified by the veterinary inspector as a roarer. The young ones, one, two, and three years old, reached to about fifty, many of them being very middling; and cobs and ponies were "good for Essex."

There were not nearly so many entries in the implement department as at Romford last year, while there was still a good practical display. The chief feature was the unusually large number of reapers and mowers exhibited. The following firms were represented: Hunt and Tawell, Earls Colne; Fell Christy, Chelmsford; W. and S. Eddington and Co., Chelmsford; Catchpool, Stannard, and Stanford, Colchester; Ransomes, Sims, and Head, Ipswich; Garrett and Sons, Leiston; Ward and Silver, Melford; J. B. Pash, Chelmsford; Coleman and Morton, Chelmsford; E. R. and F. Turner, Ipswich; R. Boby, Bury St. Edmund's; J. Dupont, Bures; T. E. Wedlake, Horchurch and Romford; C. Burrell, Thetford; J. Warren, Maldon; Dennis, Chelmsford; J. Smyth and Sons, Peasenhall and Witham; W. E. Meeson, Rochford; J. Peene, Rayne; T. C. Darby, Pleshey; W. Cottis and Sons, Epping; T. Portway, Halstead; T. Mann, Earls Colne; P. Hawkes, Aldham; C. Crisp, Halstead; J. K. King, Coggeshall; Godfrey and Jordan, Chelmsford; and Rands and Jekell, Ipswich.

PRIZE LIST.

JUDGES.—**CART HORSES:** M. Biddell, Playford; V. B. Watts, Melcombe Horsey, Dorset; W. C. Spooner, Ealing, Southampton. **RIDING HORSES:** W. Hurrell, Newton, Cambridge; D. R. Scrutton, Ogwell, Newton Abbot, Devon; G. Higgins, Castle Close, Bedford. **SHORTHORN CATTLE:** C. Howard, Biddenham, Bedford; J. K. Fowler, Aylesbury; Hugh Aylmer, West Dereham, Norfolk. **CHANNEL ISLAND CATTLE:** Col. F. M. Wilson, Stowlangtoft Hall. **SHEEP AND PIGS:** A. M. Druce, Eynsham, Oxford; W. Rigden, Hove, Brighton. **VETERINARY INSPECTOR:** Professor Browne, Royal Veterinary College.

HORSES.

FOR AGRICULTURAL PURPOSES.

Stallion.—First prize, £20, G. D. Badham, Bulmer-tye (Sultan); second, £10, J. Ketley, Feering, Talbot. Commended: A. Poole, Margaretting Hall (The Brewer).

Stallion, three years old and upwards.—Prize, £25, G. D. Badham (Sultan). Highly commended: E. Emson, Littlebury (Peer of the Realm). Commended: W. Bott, Broomfield (Champion).

Stallion, Saffron Walden Town Prize, open to all England.—Prize, £25, I. Rist, Tattingstone (Young Champion).

Entire colt, two years old.—Prize, £15, N. Allen, Great Horkesley (Young May Duke).

Entire colt, two years old.—First prize, £15, I. Rist (Young Champion); second, W. Welcher, Snare-hill Park, Thetford (Prince of Wales). Commended: N. Allen (Young May Duke).

Yearling entire colt.—Prize, £7, G. de Horne Vaizey, Halsted (Suffolk colt).

Cart mare, not under four years old.—First prize, £8, D. A. Green, Donyland-place (Bonny); second, £5, W. C. Rayner, Lyon's Hall (Bocking). Commended: F. Butcher, Colne Engaine (Depper).

Cart mare, four years old and upwards, Halsted Town Prize.—Prize, £10, G. H. Cant, Myland, Colchester (Violet). Highly commended: H. Wolton, Newbourn Hall (Diamond).

Filly, three years old.—Prize, £5, W. Thompson, jun., Rose Cottage, Thorpe (The Despided).

Cart filly, under four years old, Halsted Town Prize.—Prize, £10, W. Thompson, jun. (The Despided).

Gelding.—Prize, £5, W. Peck, Halsted (chestnut).

Two year old filly.—First prize, £8, D. A. Green, East Donyland, Suffolk; second, £5, P. O. Whitlock, Yeldham Hall, Suffolk.

Yearling filly.—First prize, £7, D. A. Green; second, £5, W. Bott, Broomfield. Highly commended: W. Bott.

Mare and foal.—First prize, £12, G. H. Cant, Myland (Violet); second, £8, D. A. Green (Brock). Commended: G. de H. Vaizey, Star Stile, Halsted.

Mare and foal at foot, Halsted Town Prize.—Prize, £15, E. Crowe, Dewer, Downham Market (Smart). Highly commended: B. Mitchell, Crowe Hall, Downham Market (Blossom). Commended and reserved: G. H. Cant, East Myland (Violet).

Foal.—First prize, £5, G. H. Cant (dam Violet); second, £3, D. A. Green (dam Brock). Commended: W. Bott (dam Diamond).

Plough mares, regularly used on a farm.—First prize, £10, W. Bott (Diamond); second, £7, T. Taylor, Earls Colne (Bonny).

Plough horses or mares, Halsted Town Prize.—Prize, £10, W. Bott (Diamond). Commended: T. Taylor, Earls Colne (Bonny).

RIDING AND COACHING HORSES.

Thorough-bred stallion.—Prize, £15, Rev. R. Westhorp, Berners Hall, Ongar (Fandanguero).

Thorough-bred stallion, open to all England.—Prize, £50, Rev. R. Westhorp (Fandanguero).

Stallion, thorough-bred, adapted for getting hunters, hackneys, or roadsters.—Prize, the President's challenge cup, value 50 gs., Rev. R. Westhorp (Fandanguero).

Stallion, not thorough-bred, calculated to get roadsters or hackneys.—Prize, £15, F. Bramwhite, Long Melford (Defiance).

Gelding, that has been regularly hunted during the past season in Essex.—First prize, £10, P. C. Barker, Ingatstone (Tom); second, £5, P. C. Barker (Bill).

Hunter, up to 14 stone, which has been regularly hunted with the East Essex hounds during the last season, Halsted Town Prize.—Prize, £10, J. W. Lay, Great Tey (Haycock).

Weight-carrying hunters.—Prize, £10, P. C. Barker, Ingatstone (Tom).

Leaper over hurdles and water, Halsted Town Prize.—First prize, £10, P. C. Barker (Venus); second, £5, P. C. Barker (Tom).

Leapers over hurdles.—First prize, £10, B. Sparrow, Gosfield Place (bay mare); second, £5, C. W. Start, Pebmarsh (brown mare).

Hackney mare, not exceeding 15 hands 1 inch.—First prize, £10, P. C. Barker (Viper); second, P. C. Barker (Virtue). Commended: P. C. Barker (Venus).

Hackney gelding, not exceeding 15 hands 1 inch.—Prize, £10, P. C. Barker (Baigent). Highly commended: P. C. Barker (Bandbox).

Four years old hunter, mare or gelding.—Prize, £6, David Christy (Hilda). Commended: J. Hutley, Braxted Hall (grey mare).

Four years old hackney, mare or gelding.—Prize, £6, John Cutts, Little Bardfield Hall (Charlie Boy).

Three years old mare or gelding.—Prize, £6, O. Barnard, Earls Colne (bay).

Two years old mare or gelding.—Prize, £6, E. Ind, Warley (Duchess).

Yearling colt or filly.—Prize, £5, S. Fitch, Wethersfield (colt).

Brood mare with foal at foot.—First prize, £10, J. Norman, Head Gate, Colchester (Velocity); second, £5, R. Emson, Halsted (bay hackney). Commended: J. Hutley, Braxted Hall (thorough-bred chestnut).

Cob, entire, gelding, or mare, over 13 and not exceeding 14 hands.—Prize, £6, P. C. Barker (Violet). Commended: G. Simson, Galleywood (Pale Face).

Pony, entire, gelding or mare, under 13 hands.—Prize, W. Lucking, Great Waltham (Simple Simon, gelding).

Match pair of carriage or phaeton horses, either sex, not under 14 hands 2 inches; shown in double harness; Halsted Town Prize.—Prize, £20, Miss Scrutton, Gosfield (Templar).

Horse or mare, shown in single harness, not under 14 hands 2 inches; Halsted Town Prize.—Prize, £10, W. A. Gilbey, Hargrave Park, Stansted (Engaged).

CATTLE.

PURE SHORTHORNS.

Bull.—First prize, £20, J. R. Chaplin, Ridgwell (Ab); second, £12, J. Hutley, Rivenhall (King Lear 2nd).

Bull, any age.—Prize, £20, W. Linton, Sheriff Hutton (Lord Irwin). Highly commended: F. J. S. Foljambe, Osberton Hall, Worksop (Shorthorn M.P.); R. F. Soffe, Hams Eastleigh, near Southampton (Lord Morpeth); G. Garne, Churchill Heath, Chipping Norton (Third Earl of Warwickshire). Commended: W. Bradburn, Wednesfield, Wolverhampton (White Satin); N. Catchpool, Stamford, Ipswich (Oxford Duke); W. Tippler, Roxwell (Cambridge Duke 2nd).

Bull, two years old.—First prize, £15, D. A. Green, East Donyland (Cherry Prince); second, £10, C. Sturgeon, South Ockendon Hall, Oxford (Thorndale Darlington). Commended and reserved: J. R. Chaplin, Ridgwell (General Carey).

Yearling bull.—First prize, £10, A. P. Clear, Maldon (The Emperor); second, T. Cousins, Cressing (King John). Highly commended and reserved: J. Hutley (Royal). Commended: R. H. Crabb, Baddow Place (Romford Duke).

Yearling bull.—Prize, £15, W. Linton (Leeman). Highly commended and reserved: A. P. Clear (The Emperor).

Bull, not exceeding twelve months old, and not under six months.—First prize, £6, C. Barnard, Harlow Bury (3rd Duke of Claro); second, £4, C. Sturgeon, South Ockendon Hall (Grand Duke of Kent).

Cow.—First prize, £15, J. R. Chaplin (Maid of Honour); second, £10, J. Upson, Rivenhall (Moss Rose). Highly commended and reserved: C. Barnard (Lady Fragrant). Commended: A. P. Clear (Lady Ducie); C. Barnard (Echo).

Two years old heifer.—First prize, £10, D. A. Green (Blossom White Peach); second, £6, J. R. Chaplin (Kitty Dod). Commended and reserved: C. Barnard (Thorndale's Sugar Plum). Commended: J. A. Piggot, Beckingham Hall (Darling).

Yearling heifer.—First prize, £7, R. H. Crabb; second, £5, R. H. Crabb (Queen of the May). Highly commended and reserved: C. Barnard (Strawberry). Commended: J. R. Chaplin (Grace Ogilvie).

Heifer, not exceeding twelve months and not under six months old.—First prize, £6, A. P. Clear (Mulberry); second, £4, R. H. Crabb. Highly commended and reserved: C. Barnard (Picotee). Commended: C. Barnard (Duchess); D. A. Green (Rose).

Bull and cow, with calf their offspring, the latter calved after the 1st June, 1871; Halsted Town Prize.—Prize, £25, N. Catchpool, Bramford (Oxford Prize). Highly commended and reserved: W. Bradburn (White Satin). Commended: G. Garne (Puritan).

Yearling bull and pair of yearling heifers.—Prize, £20, G. Garne (Red Prince). Highly commended and reserved: R. Crabb (Queen of the May). Commended: C. Barnard (Strawberry).

Pure-bred Shorthorn.—Prize, the Havering Park challenge cup, value 100 gs., W. Linton (Lord Irwin). Highly commended and reserved: F. J. S. Foljambe, Osberton Hall, Worksop (Concert).

SHORTHORNS WITHOUT PEDIGREE.

Cow.—First prize, £8, J. Hutley; second, £5, C. Swann, Colchester.

Two years old heifer.—First prize, £6, J. O. Parker, Woodham, Mortimer Place; second, B. Sparrow, Gosfield Place.

Yearling heifer.—First prize, £5, W. Sworder, Tawney Hall; second, J. Hutley.

Heifer, not exceeding twelve months old, and not under six months.—Prize, £3, C. Barnard (Chrisp, Ex-Caroline). Highly commended and reserved: W. Sworder. Highly commended: J. R. Chaplin. Commended: J. O. Parker.

DAIRY CATTLE.

Cow or heifer, for dairy purposes.—First prize, £8, Francis Butcher, Colne Engaine (Shorthorn); second, £5, G. H. Cant (Daisy). Highly commended and reserved: G. H. Cant (Beauty). Highly commended: B. Sparrow; G. D. Badham. Commended: J. Carwardine, Over Hall, Colne Engaine (Daisy); T. Taylor (Beauty).

Dairy cow, thorough-bred or otherwise; Halsted Town Prize.—First prize, £10, W. A. Gilbey (Milkmaid); second, £5, G. H. Cant (Daisy). Highly commended: J. Carwardine (Daisy). Commended: G. D. Badham (Guernsey).

FAT CATTLE.

Steer or heifer, not exceeding three years old.—Prize, £10, D. A. Green (Shorthorn steer). Highly commended: J. R. Chaplin (Shorthorn heifer).

CHANNEL ISLANDS BREED.

Bull, exceeding one year old, June 1st, 1872.—Prize, £7, and special prize £10, J. R. Vaizey (Alderney). Highly commended: W. A. Gilbey (Leo).

Cow, exceeding three years old on June 1st, 1872.—First prize, £7, and special prize £10, W. A. Gilbey (Milkmaid); second, £7, Lord Braybrooke (Lamplight). Commended: W. A. Gilbey (Victoria); W. A. Gilbey (Bee); W. J. Beadel (Alderney cow, Bloom).

Heifer, not exceeding three years old on June 1st, 1872.—First prize, £7, and special prize of £10, W. A. Gilbey (Bel); second, £4, L. A. Majendie, Hedingham Castle. Commended: J. Smith, Pattiswick (Daisy).

Bull, of any pure breed, under two years old, owned by some person within six miles of Halsted; Halsted Town Prize.—Prize, £10, T. Cousins (King John).

SHEEP.

Southdown ram of any age.—First prize, £10, Lord Braybrooke; second, £5, Lord Braybrooke.

Ram, of any other short-wooled breed.—First prize, £8, J. M. Green (Stradishall); second, £4, J. M. Green (Suffolk).

Short-wooled ram, not exceeding three years old, of a pure breed.—Prize, £10, G. Cooke, Horseheath Park, Linton (Shropshire). Specially commended: C. Roby, Stutton (Southdown). Highly commended: C. Roby.

Shearling Southdown ram.—First prize, £10, Lord Braybrooke; second, £7, Lord Braybrooke.

Shearling short-wooled ram, of any other pure breed.—First prize, £8, Nockolds and King, Saffron Walden; second, £4, J. M. Green (Suffolk).

Pen of five shearling pure Down ewes.—First prize, £7, F. M. Jonas, Chrishall Grange (Southdowns); second, £5, Lord Braybrooke (Southdowns). Reserved: J. R. Vaizey, Attwoods, Halsted (Southdowns).

Pen of five shearling shortwooled ewes.—First prize, £6, J. M. Green, Stradishall (Suffolk ewes); second, £4, W. Belcher, Sandon (Hampshire Downs). Reserved: W. Brown, Bridge Hall, Bradwell (shortwooled).

Cotswold, Lincoln, or Leicester ram.—First prize, £7, J. Giblin, Little Barfield (Cotswold).

Oxford or Shropshire ram.—First prize, £7, J. Giblin (Oxford Down).

Longwooled ram, not exceeding three years, of a pure breed.—First prize, £10, T. Gunnell, Milton, Cambridgeshire (Lincoln). Reserved: J. Giblin (Cotswold).

Shearling, Cotswold, Lincoln, or Leicester ram.—First prize, £8, J. Giblin (Cotswold). Reserved: J. Giblin.

Shearling, Oxfordshire, or Shropshire ram.—First prize, £8, J. Giblin (Oxford Down). Reserved: J. Giblin.

Pen of five shearling longwooled ewes.—First prize, £5, J. Giblin.

Pen of five ewes, of any kind, with their lambs.—First prize, £6, J. Giblin (Cotswold).

Pen of five fat shearling shortwooled wethers.—First prize, £5, Lord Braybrooke (Southdowns); second, £3, W. Sworder, Tawney Hall (Hampshire Downs). Reserved: W. Sworder.

Pen of five fat shearling cross-bred or longwooled wethers.—First prize, £5, D. A. Green, East Donyland (cross-bred); second, £3, W. Sworder (cross-bred). Reserved: W. Sworder.

PIGS.

Boar of a large breed.—First prize, £5, J. R. Vaizey, Attwoods, Halsted.

Boar of a large breed, not exceeding 12 months.—First prize, £5, and second £3, G. Griggs, Romford (The Don and Sultan).

Boar of a small breed.—First prize, £5, W. Thompson, jun., Thorpe, Black Suffolk; second, £3, G. D. Badham, Bulmer (Windsor breed).

Boar (open to all England).—First prize, £10, Duckering and Son, Northorpe, Kirkton Lindsey. Highly commended: W. Thompson, jun., Thorpe (Black Suffolk). Commended: R. Swannick, Royal Agricultural College Farm, Cirencester (Lord Liverpool); Lord Rendlesham, Rendlesham Park (Dundonald).

Boar, not exceeding 12 months.—First prize, £5, G. D. Badham; second, £3, H. R. Stone, Bedfords, Havering-atte-Bower (Bon).

Sow in pig.—First and second prize, £5 and £3, G. Griggs (Miss Hopeful and Charmer). Highly commended: H. R. Stone (Essex Rose). Whole class commended.

Sow, of a large breed (open to all England).—First prize, £5, Messrs. Duckering and Sons. Highly commended and reserved: Lord Rendlesham (Jessamine). Highly commended: G. Griggs (Miss Hopeful).

Sow, of a small breed (open to all England).—First prize,

£5, Messrs. Duckering and Son. Highly commended: G. M. Sexton, Wherstead Hall (Reine).

Sow with her pigs, the pigs not to exceed 12 weeks old.—First prize, £5, G. Griggs (Quality). Commended: W. Thompson, jun.

Sow and pigs, large breed, Halsted Town Prize (open to all England).—First prize, £5, G. Griggs (Quality). Reserved: Lord Rendlesham.

Pen of three sow pigs, of the same litter, under nine months old.—First prize, £5, G. Griggs (The Novices); second, £2, J. Wagstaff, Great Bromley. Reserved: Mr. G. D. Badham.

ROYAL CORNWALL AGRICULTURAL SOCIETY.

MEETING AT BODMIN.

During the Wednesday morning the judges, Messrs. Eastice, Elliott, and T. Oliver, delivered their awards for the implements as follows: Brenton £5 for a general assortment of implements, the simplicity of the make of his mowing machines being specially noticed. Davey £5 for his collection, and more particularly for his new double turnwrest plough. Prout £2 for his gate. T. Barou £2 for a general assortment. Drayton £2 10s. for his ploughs. Oatey £2 for his cider-press. Wood £1 for improvement in lubricating. Messrs. Howard £2 for their double-furrow plough. Messrs. Plimsol Brothers, of Plymouth, £3 for a general assortment; and Messrs. Samuelson £1 for an improvement in lubricating.

Amongst the cattle there were 57 Devons, and amongst the bulls Lord Falmouth's stock was conspicuous. In the four classes for Devon bulls he had seven entries. In the 1st class for bulls above three years old his Jonquil took the first prize, and in the 2nd class Kingcraft and Cinnamon carried off the first and second prizes respectively; in the 3rd class of yearlings Mr. Jackman, Hexworthy, took the first and second with his two young bulls placed as at Exeter. This whole class was so excellent that the judges highly commended it. The class of Devon cows in calf above three years old was not only a numerous, but a most excellent lot; out of twenty entries, no less than eleven were commended by the judges beyond those receiving prizes. The Devon heifers also maintained the character of the show. Mr. Farthing, who did so well in Cornwall last summer was not now an exhibitor in the Devon classes. The Shorthorns were also represented much more numerously than usual, and the Messrs. Hosken of Hayle, were again very successful exhibitors; they brought ten animals and carried away eleven prizes, ten ordinary and a special; their Exeter and Dorchester young bull, together with the companion heifer, winning in their classes. The Herefords, which were represented last year by only a few beasts, now counted up to thirty, an extraordinary number for Cornwall, but in the two older classes of bulls there were only four entries for six prizes. There were twenty-two entries of the Channel Islands breed, but the exhibitors were confined to a few, Lord Vivian, Colonel Gilbert, and Mr. Readle, being the most conspicuous.

For Leicesters, of which there were 38 entries, Mr. James Tremain, of Polsue, carried of all the prizes but three, two of which were thirds. In Southhams, which were in 19 pens, Mr. R. C. Clark, St. Budeaux, and Mr. George Martyn, of Camelford, being the most successful. The Dartmoors were a small lot, but other long-wooled sheep occupied 30 pens, and Mr. Corner, of Towerston, Somerset, carried off the chief honours here. In the Shropshire Down yearling rams and yearling ewes Lord Falmouth was the only exhibitor.

The show of horses was extraordinarily large, there being no less than 152 entries, requiring a large amount of shedding. While there was a number of good animals which would do credit to any show in the country, there was also many which might well have been kept at home. There was a very strong competition for the special prize of £10 for the best weight carrying hunter, not less than four years old; the successful competitor being Mr. W. Trist, of Ugborough, Devon, so that the prize was taken out of Cornwall.

The pigs were a very good lot, but not particularly numerous. Messrs. Wheeler and Sons, of Long Compton, took the first prizes in boars of large breed and breeding sows in farrows in both large and small breed. Mr. W. Ware, of

Helston, beat them in the boar of small breed, and Mr. Richard Roskilly in twelve months old boars took the first. Mr. James Tremain was first in the best pen of two breeding sows.

PRIZE LIST.

JUDGES.—DEVONS AND HEREFORDS: J. A. Smith, Bradford Peveril, Dorset; J. W. James, Mappowder Court, Blandford. SHORTHORNS AND PIGS: Stiles Rich, The Cedars, Fearwell Heath, Worcester; H. Dudding, Panton House, Wragby, Lincoln. SHEEP: G. H. Sandy, Holme Pierrepont, Notts; J. Badcock, Bemscombe, Devon; D. Brent, Clampton, Linkinhorne. HORSES: D. Collins, Newton House, Quethiock; H. Biddell, Playford, Ipswich; M. Cann, Holwood, St. Germans.

SPECIAL PRIZES.

The best bull in the yard.—Lord Falmouth's Devon (Kingcraft).

The best cow in the yard.—Messrs. Hosken's Shorthorn (Miss Maggie).

The best ram in the show.—Mr. Corner's (Somerset).

The best pen of ewes.—Mr. Turner's Leicesters.

The best pig or pen of pigs.—Mr. Tremain's two breeding sows.

The best weight-carrying hunter, not less than four years old.—W. Trist's (Bertha).

CATTLE.

DEVONS.

Bulls above three years old.—First prize, Viscount Falmouth (Jonquil); second, R. H. Marshall, St. Mawgan; third, Mr. Clarke, St. Ewe (Captain). Highly commended: J. Venning, St. Martyn.

Bulls above two and not exceeding three years old.—First prize, Viscount Falmouth (Kingcraft); second, Viscount Falmouth (Cinnamon); third, J. B. Parsons, Launceston.

Bulls not exceeding two years old.—First prize, J. Jackman, Hexworthy; second, J. Jackman (Duke of Cornwall); third and fourth, Viscount Falmouth. Class generally commended.

Bulls not exceeding twelve months old.—First prize, J. Jackman; second, H. Davey, Northhill. Highly commended; Viscount Falmouth.

Cows in calf or in milk above three years old.—First prize, T. Pinlesland, Stockley, Pomeroy, (Queen); second, J. Gould, Bampfyld Lodge; third, T. Julian. Highly commended: T. Julian; J. Mason, St. Clement. Commended: S. Barnes, Bellair; Rev. C. M. E. Collins, Trewardale; J. Tremain; J. Menhennick, Wadebridge; R. H. Marshall; W. Vercoe, Bodmin.

Heifers in calf or in milk not exceeding three years old.—First prize, T. Julian; second, T. Powlesland, Stockley Pomeroy; third, J. Mason, St. Clements. Highly commended: J. Tremain.

Heifers not exceeding two years old.—First prize, J. Gould; second, T. Julian; third, J. Nicholls, Altarnun.

SHORTHORNS.

Bulls above three years old.—First prize, S. W. Stephens, St. Kew; second, Messrs. Cardell and Martyn, St. Enoder (Bruce).

Bulls above two and not exceeding three years old.—First prize, Messrs. Tremain and G. Williams, Polsue and Ruan (General Clarence 2nd); second, Messrs. Hosken, Hayle (Prince Frederick); third, R. Tremain (Lord John). Commended: Mr. Chapman, Gerrans (Young Mercury).

Bulls not exceeding two years old.—First prize, Messrs. Hosken (Duke of Oxford); second, Messrs. Hosken (Knight of Penwith); third, W. Trethewy, Probus (Sir John); fourth, Mr. Faull, Probus (Mercury). Commended: W. Chapman (Young Lord Stanley); J. Gill, Probus.

Bulls not exceeding twelve months old.—First prize, Messrs. Hosken (Baron of Oxford 5th); second, W. Trethewy (Symmetry). Highly commended: J. Gill. Commended: R. Tremain (Little Wonder); G. Martyn, Camelford (Oxford Barrington).

Cows in calf or in milk above three years old.—First and second prizes, Messrs. Hosken; third, R. W. Pollard, Blagdon, Paington.

Heifers in calf or in milk not exceeding three years old.—First and second prizes, Messrs. Hosken; third, R. Tremain.

Heifers not exceeding two years old.—First and second prizes, Messrs. Hosken; third, R. Tremain.

HEREFORDS.

Bulls above three years old.—First prize, Messrs. G. and W. E. Lobb, Lawhitton (Ostorius); second, J. Paull, Ruan-lanihorne (Gamester).

Bulls above two and not exceeding three years old.—First prize, W. Grose, Penpont, Wadebridge (Abner).

Bulls not exceeding two years old.—First and second prizes, Messrs. G. and W. E. Lobb (Cheesewring and Harlequin). Highly commended: T. Symons, Lostwithiel; J. Paull (Frank); R. Olver (Grand Turk).

Bulls not exceeding twelve months old.—First prize, R. Tucker, Prideaux; second, T. Olver. Highly commended: T. Olver and W. Grose.

Cows in calf or in milk, above three years old.—First prize, J. Paull; second, T. Olver. Highly commended: W. Grose. The whole class commended.

Heifers in calf or in milk, not exceeding three years old.—First prize, O. Ryall, Milton Abbott; second, T. Olver. Commended: T. Olver and W. Grose.

CHANNEL ISLAND BREED.

Bulls not exceeding four years old.—First prize, Colonel Gilbert, The Priory, Bodmin; second, G. Laity, St. Hilary. Highly commended: Lord Vivian, Glynn.

Best cow in calf or in milk, above three years old.—First prize, Lord Vivian; second, third, and commended, Colonel Gilbert.

Heifers in calf or in milk, not exceeding three years old.—First prize, Colonel Gilbert; second, Mr. Pethybridge, Bodmin; third, R. Rendle, Catel Farm, Guernsey. Highly commended: R. Rendle.

SHEEP.

Leicester yearling rams.—First, second, and third prizes, J. Tremain, Polsue. Highly commended and commended: J. Tremain.

Leicester rams of any other age.—First and second prizes, J. Tremain; third, J. Mason, St. Clements. Highly commended: J. Gould. Commended: J. Rosewarne, Nanspuska, Hayle.

Leicester yearling ewes.—First prize, G. Turner, Great Bowley; second, J. Tremain; third, J. Gould. Highly commended: J. Tremain. Commended: J. Rosewarne.

South Ham yearling rams.—First and second prizes, R. C. Clark, St. Budeaux; third, G. Martyn, Trewen, Camelford. Commended: G. Martyn.

Rams of any other age.—First prize, G. Martyn; second, J. Pickering, Coombe, Liskeard; third, E. Tucker, St. Germans. Commended: G. Martyn.

Best pen of five yearling ewes.—First prize, R. C. Clark; second, G. Martyn; third, E. Tucker. Commended: G. Martyn.

Dartmoor yearling rams.—First prize, T. Squire, Lamerton, Devon; second, R. May, Glendon, Tavistock. Commended: R. May.

Rams of any other age.—First prize, T. Squire, South Brentor; second, R. May. Commended: R. May.

Long-wooled sheep, not specified in the above classes. Yearling rams.—First, second, and third prizes, Mr. Corner, Torweston, Somerset. Highly commended: J. Henwood, St. Columb, Minor. Commended: T. M. Cardell, Cosworth, Colan.

Rams of any other age.—First, second, and third prizes, Mr. Corner. Commended: T. M. Cardell.

Pen of five yearling ewes.—First and second prizes, Mr. Corner; third, J. Gatley, St. Erme. Highly commended: J. Gatley.

Shropshire Down yearling rams.—First and second prizes, Viscount Falmouth. Highly commended: Viscount Falmouth. Pen of five Shropshire Down yearling ewes.—First and second prizes, Viscount Falmouth.

HORSES.

Stallions for agricultural purposes.—First prize, J. Rowe, Lamorran; second, T. Greenwood, St. Teath (Young Astonisher).

Mares and foals or mares in-foal.—First prize, T. Pellow, Okehampton; second, W. H. Symons, St. Mawgan; third, G. Elliott, Swilley, Plymouth.

Geldings or fillies, foaled in 1869.—First prize, Hon. G. M. Forteseue, Boccannoe; second, E. Tucker, St. Germans; third, T. Julian, Creed.

Colts, geldings, or fillies, foaled in 1872.—First prize, G. Elliott; second, W. Grose, St. Kew; third, J. Stick, Lanivet.

Stallions, hacks, or hunters.—First prize, J. R. Bickell, Tavistock (Hunting Horn); second, H. Laity, Crowan (Mouraviëff).

Mares and foals, or mares in-foal.—First prize, Capt. Holder, Jetwell House, Camelford; second, Viscount Falmouth; third, W. Rowse, Norton, Bodmin.

Geldings or fillies foaled in 1869.—First prize, W. Rowse; second, W. Trist, Ugborough, Devon; third, T. B. Old, St. Merryn.

Colts, geldings, or fillies, foaled in 1870.—First prize, H. Ivey, Camborne; second, W. Trist (Nimrod); third, T. Palmer and Sons. Highly commended: J. Jacka, Marazion.

Cobs, mares, or geldings, not less than 14 hands, or more than 14 hands 3 inches.—First prize, Mr. Jackman, Caprera Mews, Plymouth; second, R. Hicks, Lanteglos-by-Fowey.

Ponies, mares, or geldings, not exceeding 13½ hands.—First prize, R. Nicholls, Lostwithiel; second, W. Gatley, St. Columb (Daisy).

Special prize of £10, for the best weight-carrying hunter, not less than four years old.—Prize, W. Trist (Bertha). Highly commended: J. Gill, St. Erme (Nimrod).

PIGS.

Boars, large breed.—First prize, Wheeler and Sons, Long Compton, Shipston-on-Stour; second, E. Tucker; third, W. Copplestone, Lostwithiel. Highly commended: Wheeler and Sons.

Breeding sows in farrows, or that have farrowed within six months of the meeting.—First prize, Wheeler and Sons; second, Mr. Lewis, St. Austell; third, Mr. Fish, Bodmin. Commended: W. Copplestone.

Boars not exceeding twelve months old.—First prize, R. Roskelly, St. Enoder; second, Earl of Portsmouth, Eggesford House, Devon; third, Wheeler and Sons.

Breeding sows in farrows, or that have farrowed within six months of the meeting.—First prize, Wheeler and Son; second, W. F. Collier, Woodtown, Horrabridge; third, J. Jackman, Hexworthy. Highly commended: W. M. Warne, Helston.

Pen of two breeding sows (of the same litter), not exceeding twelve months old.—First prize, J. Tremain; second, J. Bassett, Kenwyn; third, Wheeler and Sons. Highly commended: Earl of Portsmouth.

At the annual dinner, Mr. G. L. Basset, of Tehidy, the president, in the chair, Mr. DIGBY COLLINS, one of the judges, said he took it for granted they would all admit that there were three classes of people in this world—retrograde, stationary, and progressive; and he thought the Cornish horse-dealer might lay claim to take his place in the latter category. He did not think he should be doing violence to their understandings or their patriotism if he told them that they had not reached perfection; but, as far as progression went, he had no hesitation in saying that immense strides had been taken. The two-year-old classes were excellent, and, taking the class throughout, it was about the best he had ever seen. He was sure that Cornwall could develop horses as rapidly and produce as much quality with as much size as any other country, excepting, possibly, the best parts of Ireland.

Mr. BIDDELL said as to the brood mares for agricultural purposes, their foals were of any class they might like to call them, or rather of no class at all, and had as much business in an agricultural class as in a poultry show. If Cornishmen wanted agricultural horses, they should breed them, and not half-bred hunting foals.

THE KINCARDINESHIRE CHAMBER OF AGRICULTURE.

At a meeting held in the Town Hall, Laurencekirk,

Mr. ALEXANDER (Bent of Haulkerton) convener of the County Committee, the chairman, said that the meeting had been called at the request of the Chamber of Agriculture to consider what evidence could be laid before the Select Committee of the House of Commons on the Game-laws. Seeing that the Scotch evidence would be led within the next fortnight, it was desirable that immediate steps should be taken to make it as effective as possible. He had a circular from the Secretary to the Chamber, asking that if any special grievance was known they would appoint a representative to appear before the Committee. In the inquiry of 1846 the destruction of property had been very imperfectly proved. The circular also impressed upon them the advisability of preparing evidence from the occupants of agricultural subjects, grazing farmers, owners of pendicles, and occupants of farms in the neighbourhood of game preserves, as to the amount of damage sustained by them from the depredations of game. He (the Chairman) adverted to the incalculable amount of damage done to crops by game, made the following interesting remarks: My first experience in game damage to farmers' crops was when I was quite a young man. The late Mr. William Thom, who farmed Mains of Drumtochty and Drumelzie, on the Drumtochty property, asked me to assess damages on a turnip field on the latter farm, and at that time I found the damage to be nearly £3 per acre, when, be it observed, turnips were not of the same value as they are now, as about that time the best crops of this now valuable root would not have let at more than £5 to £7 per Scotch acre. I scarcely think Mr. Thom got any compensation for that year; but I understood that it was the means of him getting an arrangement with his proprietor to get the damage assessed every year by a competent person and he would be paid the loss, for in those days leases were not so strictly drawn with regard to game as most of them are now-a-days, otherwise the concession above alluded to would not have been gone into; and I believe that cases of this kind had aroused the indignation of the lords of the soil against their non-submissive tenants to the old yoke of feudal serfdom, and were the means of the now very stringent game clauses being inserted in the modern leases. Since my first start as a valuator at Drumtochty I have had considerable experience in valuing crops between outgoing and entering tenants. I have deducted in several cases as much as from 10s. to upwards of £2 per acre for the deficiency on account of game damage. I have also been mutually employed between landlord and tenant to assess the game damage; but in cases of this kind the landlord honourably paid the tenant the full amount. In one case in this county I was asked by a young licensed valuator who was employed by a suffering tenant to value the game damages on his farm, to go along with him, and to my astonishment I found 22 acres of oats and about 16 acres of grass completely eaten by rabbits, besides the other grain crops being roaded by hares, reminding one of the rails at a junction of a large railway. This farm, I see, is advertised to let, although the present tenant's lease is not yet half run. The advertisement for this farm says "the highest offer may not be accepted." I think this announcement wise on the part of the proprietor, because if any rent is offered at all it could not be paid but out of the tenant's capital; and it is to be hoped that it is this consideration which has induced the proprietor to warn tenants against filling his coffers with their former hard-earned savings.

Mr. TAYLOR (Cushnie) said he once stood on the banks of the North Esk, and saw Lord Dalhousie, with eighty men in line, coming through the turnip fields chasing the game. They were just like an invasion of Frenchmen. He ventured to say that all the poachers in the county would not do so much damage as they did. The question they had met to consider was not merely of local but of imperial interest. He had a letter from a tenant whose loss in 1867, as estimated by practical farmers, was £350, and that only in fields adjoining the moors. The same gentleman estimated his loss for the first ten years at £300, and his rental was about £1,000. When he sent in a claim against the proprietor, he received back a letter

threatening to prosecute him for miscrepping. He (Mr. Taylor) saw a farmer who told him that day that last winter he saw a herd of 82 deer, of which 60 were quietly browsing on a 'turnip field. A neighbour of his turned off 25 deer from a field on Sunday night. He had seen another farmer yesterday who estimated his loss at £50 for the last ten years, while his rental was £190. On any field on that farm to which he referred from two to three hundred rabbits might at any time be seen. Mr. Taylor then referred to the protective clauses which several landlords inserted in their leases, reserving the right of shooting and hunting game. He mentioned among others the Arbuthnot leases, which reserved to the proprietor alone and to his friends, by written permission, the sole right of shooting or hunting game, and of passing and repassing through the farms for sport at their pleasure, the tenants to have no claim whatever. The Fasque clause, he said, runs as follows: "Likewise reserving to the proprietors and his foresaids, and others having his authority, power to shoot and hunt the game, including rabbits, and to destroy vermin at pleasure on the lauds hereby let, notwithstanding any law being passed to the contrary, declaring that the tenant shall have any claim on the proprietors for any damage the crops may sustain from game and rabbits, the same having been taken into account on entering into the lease." The Barras Farms, which belong to the trustees of Donaldson's Hospital, Edinburgh, contained the following clause in the lease: "Likewise reserving to the proprietors the whole game upon the said lauds, and the sole right to hunt and kill the game, and to authorise others to do so, but so as not to injure the fences or crops; the tenant being bound to preserve the game, and to warn off persons hunting or shooting on the farm without written permission, and to give information so as they may be prosecuted at the proprietors' expense in the tenants' name, either separately or jointly with the proprietors." Such a lease as that, he contended, was absolutely degrading, and, besides, it was beyond the province of any trustees to insert such a clause. Mr. Alexander had made certain statements about Mr. Thom, on the estate of Drumtochty, which he could corroborate. In the first year he lost £99, and in the early years of his lease, when the rent of the farm was £400, he lost by game £220. On the farm of Knowegreens the rent was £14, and the estimated yearly damage, which was caused principally by hares and rabbits, was £40.

Mr. BURNES (Redford) said that wood pigeons were on some farms even a greater destruction than hares and rabbits.

Mr. DURIE: It all results from game preserving.

Mr. CARNEGIE (Newton) drew the attention of the meeting to the fact that, while they had been called to consider the injuries done by game, none of the farmers who were the real sufferers were present. The Earl of Kintore, on whose estate the most of the farms of the gentlemen present lay, was a most just and honourable landlord; and in regard to the vexed question of game, dealt so liberally by them that they had no call—speaking for themselves, at least—to say anything on the subject.

Mr. TAYLOR said that those who did suffer were afraid to speak out, as it would tell very severely against them. The question was not confined to those who were present merely, but was of national importance.

Mr. LARGIE (Mains of Haulkerton) proposed that Mr. Taylor, who had been most unwearied in his researches and investigations into the subject, should be appointed as a representative to give evidence before the Select Committee of the House of Commons.

Mr. AIKEN (Kirkhill) seconded the nomination, but Mr. Taylor, on the ground of inconvenience, declined.

The CHAIRMAN was afterwards proposed, and also refused for the same reason.

At the suggestion of the Chairman, a committee was named, consisting of Messrs. Taylor, Durie, Largie, and himself *ex officio*, to draw up a report on the subject, embodying all the particulars they might be able to glean, and to forward the same to the Chamber of Agriculture.

LOCAL TAXATION NOT A FARMERS' QUESTION.

At a meeting held at Guildford last month a Chamber of Agriculture was established for the county of Surrey; and the proceedings here possess something more than a merely local interest, as they point clearly enough to the chief use to which such Societies should be turned. Thus, Mr. Baker, who appeared to be the motive power of the occasion, and who proposed the first resolution, after referring almost incidentally, "amongst other subjects," to the tenure of land and the education of farmers' sons, said "*above all others*" which they should discuss was "the great question of local taxation." This was palpably in Mr. Baker's opinion the main business of a Chamber of Agriculture. The Honourable Francis Scott, who moved the next resolution, delivered himself in so many words of a local taxation address: "It had been shown that the burdens which the landed interest bore were borne for the whole of the community"—"a question of such pressing importance deserved the immediate attention of the Chamber of Agriculture"—"the high rating of houses forced people to inhabit worse dwellings"—and so on. Lord Onslow thought local taxation was "well worthy their attention"; and Mr. Andrews, from Somersetshire, referred at some length to local taxation, and "besought the members of the Surrey Chamber to work in unity for the protection of the agriculturists;" or, in other words, to busy themselves over this matter of local taxation.

So far it really looks as if the Surrey Chamber of Agriculture might more appropriately have been called the Surrey Local Taxation Society, so strongly does the tide of its discourse set in in this particular direction. As something of a commentary, however, on any such projected course of action, it does so happen that just about the same time there occurred the quarterly meeting of the longer-established Devonshire Chamber of Agriculture, where of course the subject of local taxation is familiar enough. And at this meeting Mr. George Turner moved: "That the thanks of this Chamber be given to Sir Massey Lopes for the great services he has rendered to the ratepayers of this county, and more especially by his able advocacy of their interests in the House of Commons on the 16th of April last, when the great majority of the members present affirmed the principle that it is unjust to impose taxation for national purposes on one kind of property only." The motion was seconded by Mr. Hamlyn, but opposed by Mr. Wippell and Mr. Fulford as not coming within the province of the Chamber, while Lord Fortescue, the chairman, was in favour of its being put and passed. Whereupon Mr. Wippell said: "Mr. Turner farmed his own land, and Earl Fortescue was a great landowner; so that he could perfectly understand Sir Massey Lopes' proposal being a great relief to them. But as a tenant-farmer, and standing there as the representative of the tenant, he was bound to give a very different opinion. He believed if Sir Massey Lopes' proposal were carried, it would relieve the landowners at the expense of the tenant-farmers, inasmuch as if the rates were taken out of imperial taxation, it would be taken out of the tenant's pockets instead of the landlords. He certainly could not very readily move a vote of thanks to Sir Thomas Acland for his amendment; for even he proposed to take half of the additional burdens from the tenants, whereas the landlords ought to bear the whole." Now is there any gain-saying this remarkably straightforward expression of opinion? Is local taxation really much of an occupier's question

whether of house or lands? At Guildford the Honourable Francis Scott spoke very properly to the burdens borne by "the landed interest," which of course implies the landowner's and not the occupier's, whose interests here are essentially different. All or any of these burdens in the way of rates and taxes must when removed have the inevitable tendency to make land and house property more valuable. So soon as the landlords get quit of the burdens so soon will they raise in proportion the rents. This is a maxim which we shall assume nobody can contradict. Mr. Andrews, who at Guildford spoke at length on local taxation, and urged the Surrey farmers to take the matter up, stated distinctly before a Committee of the House of Commons that if £180 were taken off his lands in the way of taxes he should raise his rents to precisely the extent of the relief afforded. What then becomes of Mr. Francis Scott's argument about high rating compelling people to inhabit bad houses, when, as Mr. Andrews could have shown at the same meeting, if the rates decrease the rents increase. It is the fashion to say that the landlords and tenants pay the rates between them, whereas they do nothing of the kind. At the outset of an agreement the landlord pays every shilling of rates and taxes, which are duly considered and set-off in the rent.

But for a single word out of place we certainly cannot see why the Devonshire Chamber should have hesitated to pass Mr. Turner's resolution. If the vote of thanks had referred to the great services which Sir Massey Lopes had rendered to the *landlords* of the county, of course there could have been nothing to protest against, but calling on the *ratepayers* to do this is quite another thing. The ratepayers, the tenant-farmers more especially, have the slightest possible interest in the re-adjustment of local taxation, by which they may expect to lose quite as much as they can gain.

For many months past there has been no topic so continually discussed in a one-sided way as this matter of local taxation, and yet the points we have referred to are continually shirked. Mr. Baker, at Guildford, protested "against local taxation being raised from real property, and that the monied and commercial wealth of the nation should escape." The yeoman, as a race, has died out. Farmers now, as a rule, but very exceptionally hold land of their own; and thus, under a thorough re-adjustment of local taxation, they will have to pay more rent and fresh taxes on what Mr. Baker calls "the monied wealth" which they may have been enabled to put by. Here the farmers would lose more than they gain. As we have demonstrated over and over again, but as nobody cared to show at Guildford, the tenants' main case and chief complaint must be against the imposition of new rates during his term, of which he has, under the present circumstances, very unfairly to bear the whole brunt. We have ventured to suggest the system of half-rating, a proposal which the great authorities of the Central Chamber of Agriculture scout, although they take good care never to answer, or enter on the argument. And, no doubt, Mr. Wippell's plan is the more simple, when he maintains that the "landlords ought to bear the whole of the additional burdens."

The farmers of England are on a wrong scent. They are "lifted" from their own game, such as Tenant-Right, the Malt-tax, and the hares and rabbits, and capped on to a red herring which has been drawn across their line, and no question brought them to cold hunting and pre-

vented them running into their own fox. Of this we have tolerably strong evidence in the report of the opening day of the Surrey Chamber of Agriculture, where

everything was made subsidiary to local taxation as a tenant farmers' question, under the shallow guise of a community of interests between the two classes!

THE SURREY CHAMBER OF AGRICULTURE.

The first meeting of the members of the proposed County Chamber of Agriculture was held at the Town Hall, Guildford, The Mayor, Mr. Hoffgaard Shoobridge, in the chair.

Mr. W. BAKER said it appeared that a few words written by him to the county newspapers had called forth that amount of energy which Mr. J. Lane Hewett had since displayed in getting such a large number of gentlemen to enrol themselves as members of the proposed Chamber. It was true he had come amongst them a comparative stranger; but he felt bound to confess that having been an active member of a Somerset Chamber of Agriculture, he was surprised to find that Surrey was without such an institution. When discussing this subject now and then with farmers of his acquaintance, he had been met with two very general objections. Many gentlemen had told him Surrey was not an agricultural county at all; others that it would be a great difficulty to get gentlemen to work together harmoniously in a matter of this kind. But as he looked around that room he thought he saw the elements of a strong and powerful association—influence and talent, and if those concomitants of success were only brought to bear upon their Chamber, he (Mr. Baker) predicted that their Chamber of Agriculture would be second to none in the country. Why should people say Surrey was not an agricultural county? Could they not produce some of the finest wheat the British Isles produced? and of beef and mutton the same might be said. Another fact in favour of combination was that the farmers of Surrey were a representative body; they came from all parts of the kingdom. He could not say what attracted them, whether it was the beautiful scenery, or the kindness of the soil, though as to the latter, it was not rich. At the same time they had a large number of landowners dwelling in their midst—and it was only by the representation of both interests that they could hope to succeed. There must be mutual concession and forbearance. They were met to form a county Chamber of Agriculture with this object in view, and to connect themselves with the Central Association in London. Although this might seem something like an innovation so far as Surrey was concerned, he might tell them that there were 96 Chambers connected with the Central body in the Metropolis. Abroad all kinds of arbitrary movements were set on foot; but they wanted nothing of the sort in England, but if possible to establish a representative organization which should have some weight in agricultural questions as they arose from time to time. If they asked him of what use an Agricultural Chamber would be, he should tell them that the answer to that question depended upon themselves, upon the amount of talent and influence brought to bear upon the work of that Chamber. There were no doubt many questions to which they might direct their attention. One of them was the defence of their home cattle. When the rinderpest visited them was it not a fact that the remedy which brought about its extinction emanated from a meeting of farmers in Aberdeen? Might not a Surrey chamber in a future calamity propound a solution of that description as well as the canny Scot? If their Chamber and others had existed more extensively when that scourge was amongst their flocks there could be no doubt that the Government would have been induced to have inserted a compensation clause in their bill which should have recouped the cattle owner for any losses he might have suffered. He adduced the value of agricultural societies' and their exhibitions as evidence of the advantage which must arise from associations of the landed and agricultural interests. Amongst other subjects which they might discuss were the tenure of land, the education of farmers' sons: he advocated a technical course of instruction which should fit them to grapple with agriculture as a science. Then, above all others, there was the great question of local taxation staring them in the face. Local taxation was levied under the name of poor's rates, but how it was misapplied no one could tell. He

protested against local taxation being raised from real property, and that the monied and commercial wealth of the nation should escape. The question of reform in this matter was not a question of town against country, nor did it call for any abstruse theories or well defined arguments to prove its injustice. Another addition to this heavy burden was looming in the distance in the shape of a Public Health Bill. Let them enter seriously into its details, and resist the unfair advantage taken of them, and ask the whole nation to contribute to what were legitimate national burdens and charges. He moved the first resolution: "That we now form an association, to be called the Surrey Chamber of Agriculture, and that its members shall consist of landowners, tenant-farmers, and others."

Mr. JOHN ELLIS seconded the resolution. He quite agreed with Mr. Baker as to the importance of establishing such a chamber in Surrey, but he should not touch upon the subjects the proposer of the resolution had introduced, as he thought they might more appropriately come on for discussion *serialim* when the institution was in working order.

Lord MIDLETON rose to speak, and was about to introduce the next resolution, with which he had been entrusted, when the mayor reminded his lordship that the former resolution had not been put to the meeting, and during the time which was spent in this process the noble lord was obliged to leave the assembly.

Mr. T. BAKER (Somerset) spoke in support of the first resolution, enlarging on the importance of co-operation between landowners and tenants, and recommending unity of action between these all-powerful sections of the community.

Mr. HENRY WHITEHEAD said he was not an agriculturist, nor had he lived long in the immediate neighbourhood, but he rejoiced to see that such an institution as they were met together to promote had taken root, and was likely to be prosperous. He would give them his reasons why he thought it was more necessary, perhaps, in Surrey, than in any other county he knew of to have a chamber of agriculture. But before giving them his reasons for thus thinking, he would take a survey of the general position of the landed interests of the country. In England there were 78 millions of acres of land, and out of these only 48 million acres were under cultivation, leaving 30 millions entirely unproductive. These uncultivated acres certainly included roads and canals and things of that sort, but still there were not less than ten millions of acres capable of being rendered productive. Why were they not brought into cultivation? It was a question which concerned Surrey, because such a large portion of the county is absolutely waste. The man whom he succeeded in the house he occupied at Godalming had told him that a pedestrian might go from Woking to Salisbury upon heather, and no doubt this was true at the present moment. Why was this? Because the largest proportion of land in England was entailed. And what was the meaning of that?

Mr. WILLIAM BAKER: I think the question before us is the formation of this chamber, and all this talking is out of order.

Mr. WHITEHEAD: I am giving reasons why I think such an institution should be supported. If I am out of order I will sit down in a moment.

The MAYOR: I think we have nothing to do with the question you have been discussing.

Mr. WHITEHEAD: I was endeavouring to show—

The MAYOR: Yes, and if you become a member of the Chamber we shall be most happy to hear your views another day. They are scarcely relevant now.

The resolution was carried.

The Hon. FRANCIS SCOTT, moved the next resolution, "That

local taxation, both on account of its incidence and continual increase, has become a question of such pressing importance as to deserve the immediate attention of this Chamber of Agriculture." They had met for one common object, and he did not think they should separate themselves into small factions by considering the question of land tenure, the position of landlord and tenant, the interests of town and country, or to place any class in antagonism to each other. It was only by common union that they could seek to produce that which it was their earnest desire to produce, namely, that they should obtain (he referred to the resolution before him) that legislation which avoided anything like a class character for that complaint which they had to make in regard to local taxation, which both on account of its incidence and continual increase had become a question of such pressing importance as to deserve the immediate attention of that Chamber of Agriculture. The reason why it deserved their attention was that it had been brought before the country for the last quarter of a century, and that nevertheless the legislature had not yielded to the importunity of those who had urged the change of the law in regard to it. The importance of the matter had been urged from different quarters. It had been shown that the burdens which the landed interests bore were borne for the whole of the community by a little more than one-sixth of the property of the country. It had been alleged—and it had been alluded to by Mr. Baker in his able introductory speech—that the poor's-rate ought to be borne by the land. Why, he asked, should the land exclusively bear that which was a national calamity? If poverty was diffused throughout the length and breadth of the country, why should one class of property bear all the burden? He was not going into the history of this subject. He was not going to dwell upon the fact that 300 years ago, when the maintenance of the poor was thrown upon the land, real property was then the whole wealth of the nation. But it might be interesting to note in the present day what the value of real property was, compared with other interests. It had been calculated that it was only between one-sixth and one-seventh of the country's wealth. And what had been the increase in real property compared with other property? Most able statisticians had ascertained that during the last 50 years, whilst the increase in the value of real property had been 30 per cent., that in other property besides real had been 212 per cent. That showed that during the last half century the wealth of the general community had increased six fold in comparison with that of those who bore the burden. If it were only the maintenance of the poor he questioned whether they would have raised any serious complaint against this burden, but when they considered that two-thirds of that which was called the poor's-rate and one-third separated from other than national purposes, then he thought they had cause to complain. If they saw there was any likelihood of the matter ending even here, they might be disposed to rest quiet. But they found that the great question which properly enough agitated the whole community, that of education, was to be imposed as a burden upon the real landed interests. Nor did they stop there. The Public Health Bill was upon them. They were all alike interested in the welfare of the community, and in the health of the lower orders, but why, therefore, should all the burden be thrown upon real property? He maintained that the very circumstance that the whole cost was borne by the land was one great cause which interfered with the health of the people. The high rating of houses forced people to inhabit worse dwellings, and arrested progress and improvements in buildings. It obliged the poor to live in low alleys, where they had foul food, foul drink, and foul intercourse. What could one expect to merge from this but crime? Another fruitful source of expenditure on local taxation. If any property was less liable to be stolen than another, it was houses and land. But the landed property was burdened whilst the commercial and manufacturing interests were in a great degree exempt. He cited the Lancashire cotton famine as an instance of what the land had to do for the manufacturing classes. If it were true then that one portion of the property of this country bore the whole of these burdens, they had a fair claim to ask that the Government and Legislature should alter the incidence of local taxation. He was led to these remarks, and to speak with more energy from observing that in the Local Government Board there was an evident intention to inflict further charges upon the landed interests. Perhaps they were not cognisant of the fact that the Local

Government Board was nothing more nor less than a board for suppressing local government in its truest sense, and substituting central government in its stead. He would quote a few words from a recent report issued by them: "The great difficulty is," so the report ran, "in thinly and widely inhabited rural parishes, where impatience of rates and ignorance of sanitary principles concur in their extreme form." What did that show? That they (the landowners and farmers) were thoroughly ignorant and impatient. That was, he supposed, that they were impatient at being obliged to pay when they did not know what they were paying for. He would continue the quotation: "As the work to be done is costly, and will largely increase the rates, it is sure to meet with strenuous local resistance from those who have the pressure of rates." He hoped they would strenuously resist these burdens. That was their object in forming a Chamber of Agriculture. He could only liken the present position of the owners and occupiers of real property to a horse which had been enticed by a feed of corn—the other interests did contribute about one-fifth to local taxation—to have the halter put around its neck, and he cautioned them to be careful how they allowed the London veterinary to put the twitch upon their noses, and to fire them and bleed them as he choosed.

LORD ONSLOW, in seconding the motion, said he came there as a listener rather than as a speaker. He thought there could be no doubt that this Chamber would succeed. Local taxation was a great anomaly, well worthy their attention, and one which he hoped they would endeavour to remove. His lordship promised them every support in his power.

Mr. WHITEHEAD here began to re-address the meeting, calling attention to what was originally the law of poor's rates, namely, that everyone should contribute according to his means, when the Mayor asked him to allow him to put the resolution.

Mr. WHITEHEAD continued in spite of the chairman's intimation.

Mr. J. L. HEWETT then called him to order.

Mr. WHITEHEAD said he objected to being snubbed in any such way.

The MAYOR reminded him that they had no wish to do anything of the sort, only the business of the meeting was heavy.

Mr. J. NO. ELLIS took Mr. Whitehead's part. He knew him as a retired London solicitor, and considered his remarks as pertinent to the question at issue as any that had been made. But at the same time he thought brevity should be observed.

Mr. WHITEHEAD then went on to show that the old rule that everyone should contribute to the relief of the poor according to his means had been abrogated altogether.

Mr. ANDREWS, the deputation from the Somersetshire Chamber, made some remarks as to the importance of these institutions in influencing county members of Parliament, he referred at some length to the local taxation question, and besought the members of the Surrey Chamber to work in unity for the protection of the agricultural interests.

The motion was carried.

The third resolution was, That the business of this Chamber shall be conducted by an executive Committee; the fourth, That G. Cubitt, Esq., M.P., be the President of this Association for the ensuing year; that Viscount Middleton and Captain Ramsden be the Vice-Presidents; and that Mr. Wm. Baker be the Delegate from this Society to the Central Chamber of Agriculture in London.

Mr. CUBITT was glad the suburban element of the county had thus been stirred, and if for one reason more than another it was because it would enable him to ascertain the wishes of his constituents the more correctly on any measure that might be brought before Parliament. He knew that Mr. Lee Steere would also value an institution of this kind, and watch as he should their interesting discussions, which he felt certain the motion of Sir Massey Lopes would not make lighter.

ROYAL AGRICULTURAL SOCIETY OF IRELAND.

At the June Council meeting, Sir George F. Hodson, Bart., in the chair, a letter was received from the Secretary of the Anti-adulteration Society, requesting the co-operation of the Council in carrying out the objects for which it was established.

Mr. CUST said a few weeks ago he brought the subject of the adulteration of Peruvian guano under the notice of the Council. The matter was perfectly well known to the members, but it was not equally well known to the tenant-farmers. His object, which he had embodied in a resolution, was that it should be more generally known. Some time previously a sub-committee was appointed by the Council to report on the subject, but, unfortunately, the attendance of the members was extremely meagre, and nothing had been done. Since then he had purchased Peruvian guano, which he had analysed, through the Secretary, by the Society's chemist, who reported that it was, as a fertiliser, three quarters less in value than what had been offered for sale in previous years.

Mr. BAGOT asked what was the amount of ammonia which it contained?

Mr. CUST replied that he was unable to state. Instead of 16 per cent., it only contained about 4 per cent. of ammonia. Under those circumstances he moved that "the Council do forward to the various local Societies a short abstract of the recent report of their chemist, bearing on the quality of the Peruvian guano now imported into this country, with a request that they will publish it in the local papers for the information of the farmers of Ireland." Although he had not given notice of his intention to propose that resolution, he thought it of sufficient importance to warrant the Council to make the report more public, by condensing it into a small form.

Lord TALBOT DE MALAHIDE said he wished to say a few words on the subject, as he was connected with the Anti-adulteration Society, in which he took a deep interest. He was in no wise opposed to Mr. Cust's motion; and the only question was, whether there might not be some addition made to it. The Society to which he referred was, he thought, deserving of the encouragement and support of the agriculturists of this country. It had the same object in view that Mr. Cust's motion had, with this further advantage, that it had already taken practical steps in checking the sale of adulterated manures. Although in its infancy, it had already effected much good. In one district in the West of Ireland it had stepped in and assisted in prosecuting the vendors of manure imported from Liverpool. In the case to which he referred the parties had been brought before a legal tribunal and heavily fined, so that it was not likely they would do a similar act again. In every instance, where practicable, they had been instrumental in checking those frauds, and, therefore, he believed the Society was deserving of general encouragement. There was a universal expectation that the Society would be largely encouraged and assisted by the dealers and agriculturists of the country. For this reason, although they did not expect any pecuniary assistance from the Council, they were anxious their position should be acknowledged, and that some token of recognition should be given to it. He would propose a resolution, stating that the Council having received a communication from the hon. Secretary of the Anti-Adulteration Society, they highly approved of the Society, and that they hoped their operations would be generally recognised and appreciated. He desired to know if the terms of Mr. Cust's resolution referred to the adulterated state in which Peruvian guano was sold in Ireland, or to the inferior quality of the guano imported from South America.

Mr. CUST said that the object of his resolution was to awaken tenant-farmers to the fact that the quality of the guano now offered was inferior to what they obtained in former years. He maintained that it was the duty of the Council, having the machinery at hand, to have taken up the object sought to be attained by the Anti-Adulteration Society; but not having done so, they should extend to it all the support they could.

Mr. BAGOT asked if the chemist had sent in his report of the analyses he had made during the past half year?

The CHAIRMAN replied in the negative.

Mr. BAGOT had a communication which had been received by the Committee, suggesting that as the contract with the Peruvian Government expired in August, the question should not be agitated at present.

Lord TALBOT DE MALAHIDE explained that the Anti-Adulteration Society did not confine itself to Peruvian guano, but to all artificial manures.

Mr. CUST did not see why the new contractors should not be required to sell an article according to a guaranteed analysis.

Mr. ROBERTSON, in seconding Mr. Cust's resolution, insisted that the present was the proper time for taking action in the matter. The proceedings of the Anti-Adulteration Society had ventilated the question to some extent, but not so much as was to be desired. He knew, himself, that the Society had taken action in a case in which a large quantity of adulterated manure had been sent to the county Wicklow, the effect of which was to prevent its being sold to the farmers of that county. An article was sold at £10 10s., which Dr. Cameron valued at about £6 a ton. The subject was one which should have been taken up by the Council, and not having done so, they should ventilate the matter, so that the parties should know what they were doing before they entered into a new contract with the Peruvian Government.

Mr. OWEN was personally aware that the Society had effected much good in the county of Wicklow, and he thought, from discussions which had taken place in that room, great benefit followed calling the Society into existence—a society which had conferred incalculable advantages on the tenant-farmers.

Mr. BAGOT was of opinion that if vendors sold by analysis, a higher price would be demanded for guano. He apprehended that it never would come to pass that Peruvian guano would be sold by analysis. The contract with the Peruvian Government was at present actually signed, and it was not likely that they would ever be able to induce the contractors to sell by analysis, inasmuch as they could not supply the demand for that article.

Mr. WADE stated that no accusation whatever had been made against the Peruvian Government of adulterating their guano. All that was asked was, that the farmers should have a guaranteed analysis, so that they might know what they were buying.

The resolution was then put from the chair, and adopted.

The Secretary was directed to reply to the communication of the Anti-Adulteration Society, intimating the approval of the Council in its objects, and promising to co-operate in carrying them out.

The half-yearly meeting was held immediately after the business of the Council was disposed of; Lord Talbot De Malahide in the chair.

Sir GEORGE HODSON, Bart., moved the adoption of the half-yearly report, as follows:

In recording the transactions of the past half-year your Council have to state that the Society at present consists of 14 life members and 738 annual members, making a total of 752. At the council meeting in October last it was determined to hold an exhibition of traction engines in connection with your Society. This exhibition accordingly took place on 17th January, 1872, and, at the same time, a trial of double-furrow ploughs was made upon the farm of Mr. Littleboy, near Maynooth, which was largely attended by the farmers of Kildare and the adjoining counties, and excited very great interest. The address to her Majesty the Queen and the Princess of Wales, unanimously adopted at the last half-yearly meeting, on the occasion of the restoration to health of his Royal Highness the Prince of Wales, was forwarded by the proper officers, and was most graciously received. Your Society continues to offer prizes for the erection of farm-buildings and offices, for labourers' cottages, and for the permanent repairs of those already existing. For the years 1870-

71, competition occurs in the counties of Londonderry, Meath, Kerry, and Queen's County. Only one competitor has entered on this occasion for the prize for drainage. The subject of the inferior quality of the manures and feeding-stuffs at present in the market has recently attracted the notice of your council, and a Committee has been appointed to consider and report as to what remedy can be applied to this acknowledged evil. Your Council regret that the Society's members and those of the affiliated local Societies do not more largely avail themselves of the facilities for analysis through the instrumentality of Dr. Apjohn. Every exertion to secure a successful meeting at Belfast, in conjunction with the North-East Agricultural Association, is being made on the part of the local Committee, and a most eligible site, at a short distance from the town, has been selected for the purpose. The report from the Joint Committee of the Royal Dublin and Royal Agricultural Societies, as regards the application of the Government grant for instruction of flax in the south and west of Ireland, has been issued, and as this grant will be in future discontinued, the Committee has been dissolved. Since the last meeting of Council, one of your members, who requests that his name may not be mentioned in connection with the subject, has liberally contributed a cup, value twenty sovereigns, as a prize to be offered at the coming Show at Belfast, for short-wooled sheep, to be competed for under the same conditions as the Cork challenge cup.

In accordance with the 9th rule ten members of your Council go out of office, but are eligible for re-election. There are at present two vacancies in the appointed number of members; one caused by the acceptance of the office of president by Lord Lurgan, the other by the demise of Mr. Denis Kirwan. A correct list of members whose subscriptions have been paid previously to the 1st April, 1872, has been prepared and forwarded to each member entitled to receive it. The following gentlemen are recommended as the finance committee for the current year: William Donnelly, C.B., Phineas Riall, Hon. C. J. Trench, H. H. Woods, Colonel Vesey, H. J. MacFarlane, J. M. Royle, and C. U. Townshend.

Mr. RIALL seconded the resolution, which was adopted unanimously.

Scrutinizers were then appointed to receive the voting papers of members for the election of twelve members of the Council, in the room of a like number who retired by rotation.

ANTI-ADULTERATION SOCIETY.

A meeting was held at the Ledwich School of Medicine, Peter-street, Dublin, Mr. William McKenzie in the chair.

Alderman PURDON, hon. secretary, read the accompanying letter, which had been received from the Under Secretary, and which referred to the attempted sale of spurious guano:

Dublin Castle, 10th May, 1872.

SIR,—Referring to your letter of the 7th inst., relative to the sale of adulterated guano, and conveying the request of the Council of the Anti-Adulteration Society of Ireland that the matter should be brought under the consideration of Government, I am directed by the Lord Lieutenant to acquaint you, for the information of the Council, that your communication has been submitted to the law officers for Ireland, and they are of opinion that, as it does not appear that any person, criminally responsible in respect of the matters referred to, is within this jurisdiction, his Excellency ought not at present to interfere. If, however, a *prima facie* case is made before the magistrates, and informations are returned for trial against any person amenable in Ireland, the Attorney-General will consider whether the prosecution ought not to be conducted by the crown. I am, sir, your obedient servant,

J. H. BURKE.

To Edward Purdon, Esq.

Alderman PURDON: This is a most important communication, and ought to be published.

Mr. J. BALL GREENE: I really think so. It will show that the Government are determined to give us every assistance in checking fraud.

THE CHAIRMAN: It will act as a warning to manufacturers. Dr. CAMERON reported:—

ARTIFICIAL MANURES.—When analysing artificial manures chemists operate upon very small quantities, from 30 to 100

grains (less than $\frac{1}{2}$ oz.) only. The chemist before he weighs out the portion which he intends to analyse thoroughly rubs up in the mortar the sample which has been submitted to him, so that the few grains which he actually examines may accurately represent the quality of the whole sample. When, therefore, we are about to have a manure analysed, here is the way we should set about it: Take samples of about half-a-pound weight each from two or three places in each sack of the guano or superphosphate of lime, or whatever be the manure. Break down the lumps (if any be present) with the back of a spade, or other implement, and mix all the portions together as thoroughly as possible. Next take somewhat less than a quarter of a pound, and wrap it carefully in lead paper or tinfoil, but *not* in ordinary paper; for the latter, in the case of superphosphates, would absorb some of the soluble portion of the manure. The lead paper is then to be enclosed in a piece of ordinary paper or little canvas bag, and sent through the parcel post for 2d. When artificial manure is purchased, a portion of it should be at once enclosed in a bottle, sealed and corked up. Long after a quantity of manure has been purchased and used, circumstances may arise which might render an analysis of the article very desirable, and, perhaps, necessary. It is therefore necessary to be able to prove that the sample preserved had not been tampered with until delivered to the chemist.

ANALYSIS OF SOILS.—The following is the method of collecting samples of soils: Take a cubic foot of the soil and subsoil and place it just as it is removed from the ground, in solid block, into a box.

LIMESTONES AND ORES.—Send a solid piece, weighing 4 oz., through the post, 2d. postage. The specimens are best collected during moderately dry weather.

WATER ANALYSIS.—A satisfactory analysis of water cannot, as a general rule, be made with a less quantity than one imperial gallon. Brewers often require very elaborate examinations of water, and they should send two gallons to the chemist. The water must be placed in a thoroughly clean vessel. A new jar answers pretty well, but still better are half-gallon bottles: for their freedom from dirt can be seen, which is not the case with a jar. Rinse the vessel repeatedly with the kind of water with which it is to be filled, bung it up with a new cork, and cover the latter with wax. Spring or pump water should be rapidly introduced into the vessel, and expeditiously corked up, otherwise, but in certain cases only, certain kinds of gaseous matter may escape from the water before the chemist has had an opportunity of observing them. The great point in sending water for analysis is to be sure that the vessel is perfectly clean: *one grain weight of dirt* distributed over the whole inner surface of the jar would very materially vitiate the results of the analysis. If the "hardness" of the water be the only point requiring determination, one pint will be a sufficient quantity.

ANALYSIS OF THE VICERA OF ANIMALS.—In cases where it is desirable to ascertain whether or not animals have been poisoned, the following precautions should be observed: The carcasses of dogs may be sent untouched. In the case of larger animals the whole of the viscera, except the lungs. Where it is necessary to make the parcel as small as possible, the most important organ to send is the stomach, next the liver, third the heart, lastly the lower viscera, including the kidneys. If medicines or antidotes have been given to the animals, state fully their nature. It is well also to mention the symptoms (if observed) which the animals exhibited before and immediately after death. This kind of information often enables the chemist to shorten his labours by looking at once for some particular poison. For example, if the animal suddenly had violent spasm, and remained extremely rigid after death, the poison, if any, would in all probability have been strichnine. If a portion of the food last used by the animal be obtainable, it is well to send it to the analyst.

OILCAKES AND SIMILAR FEEDING STUFFS.—Select a piece weighing about three ounces, from the centre of the cake, wrap it in a paper (leaving the ends open), and send it through the post-office.

SEEDS.—Two ounces enclosed in a bag, sent through the post-office.

MILK.—Enclose two ounces in a bottle, place the latter in a wooden box or cork case, and send it through the post-office.

BREAD.—One pound is required for determination of alum, &c.

SPIRITS, WINE, &c.—Half-a-pint is required, and it must be sent by rail or coach.

The Council, having disposed of some routine business, adjourned.

FLAX SUPPLY ASSOCIATION.

At the bi-monthly meeting, Mr. Philip Johnston in the chair, the SECRETARY read the following report:—In former years query slips were issued during the month of May for the purpose of obtaining the requisite information to enable a report to be placed before the public of the condition of the growing flax, and the probable extent of land appropriated to the culture of this important crop. Owing to the sowing being delayed, caused by wet weather, to an unusually late period, the query slips have not yet been sent out; but when it is considered that the crop has all been sown, and that a reliable report can be obtained, the usual slips shall be forwarded to correspondents in the several districts, and a report published for the information of the trade; meantime it may be mentioned that in many districts the braids of early-sown flax look most promising, but the want of growth caused by the extreme coldness of the weather is complained of. This is the substance of reports from correspondents in several localities in Ulster, Leinster, and Munster; but owing to the peculiar character of the season, as was before observed, a detailed account cannot be given until the

crop has made more progress. Numerous applications have been received this year for flax-seed, and a very considerable quantity has been selected with much care and forwarded to flax growers in Munster, Leinster, and Connaught. Applications have also come from Ulster, which have received prompt attention. An Ulster farmer remarked that the seed sent to him was the best that had been seen for years in the district in which he lived. The accounts of the flax crop in Belgium and Holland are most favourable. A correspondent at Courtrai says: 'I never saw such a general happy result in one year's sowing.' Another correspondent writes: 'At present the appearance of our growing crop all around this district is everything that could be desired.' A correspondent in Rotterdam states: 'The braids I have seen look splendid. A letter has been received from the secretary of the Chamber of Manufactures at Adelaide, South Australia, stating that the interest in the development of the flax industry was unabated, and expressing every confidence that, when the necessary machinery was erected, the culture was likely to be firmly established, but promises to write more in detail in reply to letters received from this Association which had been recovered from the wreck of the 'Racon,' alluded to in a former report. Another correspondent in South Australia asks for information regarding the process of oil-crushing. This has been obtained, together with drawings and estimates of the necessary machinery, which shall be forwarded by next Australian mail.'

THE HIGHLAND AND AGRICULTURAL SOCIETY OF SCOTLAND.

At the June meeting of the directors, Mr. Binnie in the chair, letters were submitted from the Secretary to the Austro-Hungarian Embassy and from the Board of Trade, sending additional copies in French of the programme of an exhibition of dairy produce to be held at Vienna in December next, together with additional copies of the forms of application to be used by intending exhibitors. Forms to be had on application to Mr. F. N. Menzies, 3, George IV. Bridge.

The SECRETARY reported that, according to previous arrangement, the Right Hon. W. E. Forster, Vice-President of the Committee of Council on Education, had, in the unavoidable absence of the Lord President, received a deputation of members of the Society at the Privy Council Office, on Tuesday the 4th inst., on the subject of the transit of cattle by sea and railway. The deputation was introduced by the Marquis of Tweeddale, who called upon the secretary to read the following statement on behalf of the Society:

The very serious increase of disease among cattle in Scotland has induced the Highland and Agricultural Society to consider what have been the direct causes of this calamity, and they have come to the conclusion that disease has been greatly promoted by the exposure, starvation, and ill-treatment which animals meet with in transit by sea and railway. A committee of the Society has been engaged in making inquiries on this subject since March 1867, but as it was understood that the matter was to be brought before Parliament, the Society has not considered it necessary to wait on the Privy Council earlier; but they now beg to call the attention of your lordships to the prevalence of disease in many parts of Scotland, and to make a few suggestions with reference to the transit of cattle, which they hope, if adopted, may have the effect of checking disease. It is well known that during the restrictions on cattle traffic whilst the rinderpest was raging, pleuro-pneumonia and foot-and-mouth disease ceased to exist in the kingdom, and this fact goes far to prove that the bad system adopted in the transit of animals is the cause of these diseases being so prevalent. It is presumed not to be necessary to advert to the enormous quantities of cattle and sheep which are now transmitted by sea and railway, and to the risks which the animals incur when put into steamboats and trucks commonly used for their reception. A very large proportion of the cattle before being sent away have been kept in comfortable byres, sheds, and courts, where they are sheltered from extremes either of heat or cold, have constant supplies of food and water, and stand or lie down on soft straw or other bedding. A sudden

transition to a steamship or railway truck, and to remain in it for a length of time, cannot fail to be most injurious by the sudden exposure to a different temperature, by being deprived of food and water, being prevented lying down, being made to stand on hard boards to which they are not accustomed, and by being violently knocked about by the rolling of the ships, and in the shunting of the trucks on railways. These causes of injury affect not only fat stock going to market, but store stock, and lessen the value of both kinds most materially. It is also well known that when animals are weakened by starvation, or by rough treatment, they are more susceptible of disease, so that when they come into any neighbourhood where an epidemic prevails they are less able to resist its influence. The Privy Council, it is understood, fully allow the correctness of these statements, and have passed some excellent regulations with the view of ensuring greater comfort to the cattle, when conveyed by sea, or travelling in railway trucks. One of these regulations, enacted in May 1870 (No. 300), is that railway companies shall have the cattle trucks fitted up with spring buffers, and means of supplying water to animals. But the Society regret to say that the regulation referred to is not attended to by all the railway companies, and though the local authorities in burghs and counties have power to enforce the orders issued by the Privy Council, they fear that this power is seldom acted on. It is therefore suggested:—1. That a circular be sent by the Privy Council to all local authorities, informing them of the powers they possess, and drawing their attention to the necessity of their taking the proper means to see these orders carried out. 2. That in the shipping of cattle from Ireland they should be protected from the elements, and that water should be supplied at the ports of embarkation and debarkation, as ordered by the Council on 12th May 1870 (No. 300). 3. That in addition to the spring buffers stated in order of Council (No. 300), the Society considers it is absolutely necessary to provide covered waggons closed at the ends, and 18 inches along the side from each end, to protect the animals, as well from the snow, rain, and wind in winter, as from the heat of the sun in summer. That many of the trucks are not provided with cross battens on the floor to prevent the cattle from slipping; and the Society would further strongly urge on the Privy Council to adopt a plan, to give the animals some soft substance to stand on, such as tan, sawdust, or straw; for when taken out of the trucks many of them are found so "foot-sore" that they can scarcely travel to the market, or

more distant locality to which they are consigned. 4. That though it is very important that animals receive water on being trucked and untrucked, and though the Society is aware that the Privy Council have done all in their power to have water supplied at all stations where possible, still it is considered absolutely necessary that animals which from the long distance they have to go, as from Inverness or Aberdeen to London, are likely to be in the trucks more than twelve hours, should be supplied with water; and if on the journey twenty-four hours, with both food and water, during transit. The Society believes that without much difficulty troughs could be fitted to the sides of the trucks, and filled by a hose. These troughs must not be inside of the trucks, for then they would run the risk of being dirtied by the dung of the animals, and occupy too much space, but they may be fastened to the outside of the trucks, and be within reach of the cattle. The food could be supplied in racks at the sides of the trucks, and should consist of hay or grass, and be supplied by the railway companies, as these companies should be taken bound to supply water for all animals which have been more than twelve hours trucked; so also they should be taken bound to keep the racks filled with hay for all animals to be twenty-four hours in the trucks. 5. That it is believed much could be done to prevent the exposure of the poor animals to cold and starvation were the Privy Council to insist on the railway companies accelerating the speed at which cattle trains travel, and compelling the companies to discontinue the practice of delaying these trains, and, as is frequently done, slunting trucks of cattle into sidings, and leaving them there for hours. Mr. FORSTER, after thanking the Society for bringing these matters under the notice of the Council, stated that the Government were most anxious to do everything in their power for the comfortable transit of the animals, both for their own sake and the public, and that

some of the suggestions urged by the Society should have his serious consideration.

The SECRETARY read a letter from Mr. James Caird, C.B., one of the Enclosure Commissioners, sending a copy of a set of plans of labourer's cottages for the use of the Society, with specifications and a copy of a circular letter to their inspectors, explaining that their object in issuing these plans is as follows: The two sets of plans and specifications of agricultural labourers' cottages, embrace all the conditions required under the several Acts of Parliament administered by this office, to secure permanence of structure and convenience of arrangement, without ornament or unnecessary cost. Plans Nos. 1, 2, and 3 are designed principally for Scotland and the Border counties, and provide either a living-room and three bed-rooms, or a living-room in which there may be a bed and two bed-rooms. The plans numbered 4, 5, 6, and 7 are more specially designed for England, but are also applicable to Scotland, and provide a living-room and three bed-rooms. Plan No. 8 includes the requisite offices. Where groups of cottages in England are erected at the same time, it has been and is the practice of the Commissioners to allow one-third of the number to be made with a living-room and two bed-rooms, if that should be desired. The Commissioners wish it to be clearly understood that the adoption of these plans is in no way imperative on landowners. They are based on the experience which the operations of this office in all parts of the country has afforded, and have been prepared with a desire to facilitate the construction of improved cottages, and in consequence of repeated applications by parties interested. But the Commissioners will be at all times ready to consider any other plans which landowners may prefer, or any alterations which they may suggest or circumstances render necessary, and they do not object to ornamentation if its cost is not sought to be charged on the estate.

THE GAME-LAWS COMMITTEE.

MR. MANN'S EVIDENCE.

Mr. Fairman Joseph Mann, the defendant in the case of *Hemsworth v. Mann*, which was lately decided by the Master of the Rolls in favour of Mr. Mann, has been examined during the whole sitting, which extended from about 12 o'clock until a quarter past 4. Beyond the Chairman, there were present, Mr. Winterbotham, Sir G. Grey, Sir M. H. Beach, Mr. Dent, Sir J. Trelawney, Lord Elcho, Mr. Muntz, Mr. McLagan, Mr. Roland Winne, Mr. Sherlock, Mr. C. S. Read, and Mr. Pell.

In reply to Mr. READ the witness said: I live at Church Farm, Shropham, Thetford, my occupation having commenced in 1862. I have a 21 years' lease, and my farm consists of 460 acres. I pay a rent of £605, that being an advance of 5s. an acre over the rent paid by the preceding tenant. When I took the farm the game was let to a Mr. Daniell. He only remained for about two years, and during that time I had no reason to complain of the amount of game. The Hall and shooting were then sublet to Mr. Budd, and there was a rapid increase of the game. In 1868 the damage had become very excessive, and in one field, consisting of 64 acres of wheat, it was estimated at £150. The damage was proved in the Court of Chancery. The other tenants suffered as well as myself, particularly Mr. Laud, the damage on whose farm was valued in 1869 at £150. I complained very much indeed to the landlord, who was a receiver under the Court of Chancery, and got his consent to put up a bank and some wire-fencing for my protection. I have power under my lease to kill the rabbits. The damage to which I alluded is caused principally by rabbits and hares. I don't complain of the damage done by winged game. I did all I could to kill the rabbits by setting traps and snares, but did not succeed. It is impossible to kill rabbits when they lie in coverts. They lodge in the covert by day and come out at night to eat the crop. In this case the covert was about 40 acres in extent. The traps were sprung and the snares removed by the keeper. The keeper admitted in his affidavit that he removed the snares. The bank and the wire-

fencing cost me about £50. A bill in Chancery was filed to compel me to pull them down. It was filed in the name of the receiver, Mr. Hemsworth, but Mr. Hemsworth refused to bring the action until Mr. Budd had indemnified him for the expenses. The relief prayed by the bill was under three heads—that I should not be allowed to violate a covenant in my lease, that my men should not be allowed to carry a gun, and that my dog should not be allowed to go about near the covert. [At the request of the Committee the witness then read the prayer of the bill, which has appeared in the *Mark Lane Express* in full.] As regards the last point the complaint was that my shepherd in driving a flock of sheep had disturbed the young pheasants. The result of the suit in Chancery was that the bill was dismissed with costs; but I have no doubt that I shall be a considerable amount out of pocket, though my lawyer is my brother-in-law. If the suit had gone against me, what with the costs and the depredations of hares and rabbits, I might have been ruined. Mr. Budd pays a rent of £200 a year for the Hall, a garden, a park of 52 acres, 5 cottages, and the shooting over 3,278 acres. In 1868 the damage which I received was about £100, and in 1869 it was as much as £150. Since I erected the bank with the wire fencing the damage has been much less. Mr. Laud, the neighbouring tenant, may have suffered more in consequence of that erection. In spite of my fencing I saw the other evening 7 hares that had jumped over; such a structure cannot keep out rabbits, which get under the fencing. In consideration of the small rent which I have mentioned, the renter of the shooting has power to ruin the substantial tenants of the estate. The landlord would have the same power, but as a rule landlords do not use their power to the same extent. A stranger from London cares nothing for the tenants. Mr. Budd is a London solicitor. He has hired other shooting, and the result was that there was constant litigation between the tenants and the trustees of the estate. The trustees brought an action against him for injury to the grass, and for the destruction of underwood through an undue preservation of rabbits. The matter was referred to arbitration, and the arbitrator gave damages

against the defendant. I am aware that by the common law of the land a tenant has a right to all the game on the land which he occupies; but he parts with it because he would not otherwise be able to get the farm. Very few of the tenants in Norfolk have a right to kill rabbits. I am in a better position than many of my neighbours because I have that right, and also have a lease; but notwithstanding these advantages, I have suffered very severely. When I took the farm Mr. Daniell had a lease with 19 years to run, and I did not imagine that he would leave. I obtained two convictions before the magistrates against Mr. Budd's gamekeeper—one for an assault, and another for injuring my bank; in addition to which, my shepherd was summoned for killing a leveret, and the case was dismissed. I have been a good deal annoyed by Mr. Budd's men breaking down my fences and strolling about. They have left gates open and broken fences. I know one case in which a keeper has gone past a farmer's room every morning while he was breakfasting simply to annoy him.

Mr. DENT: Are these general accusations against gamekeepers? Are they all bad men?—I think they are generally men of bad character.

Sir G. GREY: Are you speaking from your own experience or that of others?—I am speaking from my own experience.

But that experience is limited to the estate on which you live?—I think what I have said is true generally.

But your own experience is limited to the keepers on that particular estate?—Yes, principally.

Mr. C. S. READ: When you say that keepers are generally men of bad character, do you mean that there is some truth in the old saying that the best gamekeepers are reformed poachers?—Yes, I think so.

You think there is some truth in that?—Yes; I think there is a good deal of truth in it.

Do you believe that as a rule they try to deceive the landlord?—Yes.

[The witness here gave some particulars in support of this view, especially relating to rabbits.]

Examination by Mr. READ continued: When a man is allowed to kill the game on the land he occupies landlords and farmers live in peace; when the contrary is the case there is no peace whatever. It is not possible to farm against rabbits, not merely on account of what they eat but also on account of what they destroy. Artificial grass will not grow where rabbits abound. The damage caused by winged game is very small indeed. I like to see partridges and pheasants preserved.

Do partridges in moderate quantity do the tenant more good than harm?—They eat insects. I should be very sorry indeed if winged game ceased to be preserved.

Do you think that is the feeling among the tenantry generally in Norfolk?—Yes.

What do you think would be the effect of taking hares and rabbits out of the game list?—I don't think that would do any good unless something else were done as well.

The CHAIRMAN: What do you understand by the words "taking hares and rabbits out of the game list"?—I understand that there would be greater liberty.

Mr. READ: Greater liberty to those who had the right?—Yes. In districts where they were not preserved they would be killed more generally.

Examination by Mr. READ continued: Unless you had a right to kill rabbits in the plantations you could not destroy them. I think that in the county of Norfolk no arrangement would be of any use which did not include a joint and inalienable right on the part of landlord and tenant to kill the rabbits and hares. That opinion has been expressed by the Norfolk Chamber of Agriculture. When the cattle plague prevailed, so far as I know landlords did not object to pay their share of the rates which were levied, even when the tenant had covenanted to pay any fresh rates. I do not think the present law of trespass is satisfactory, and in my opinion if hares and rabbits were taken out of the game-list it ought to be made more stringent. I think the penalty ought to be heavier when dogs and snares are used than in cases in which people simply walk on the grass. I have heard of cases of double conviction at Swaffham. A man who has killed a hare after suffering three months' imprisonment has been subjected at the instance of the Excise authorities to a £20 penalty for sporting without a licence.

Sir G. GREY: When was that?—About two years ago.

By Mr. READ: I think the tenants should have the first offer of the shooting. I know a case in which a tenant offered to hire it and was refused. I myself offered Mr. Hemsworth £100 a-year, and would have agreed to indemnify him against any complaint from the other tenants. I would have given £50 a-year for the shooting over my own farm. I know cases in which a great deal of damage has been caused by game to neighbouring estates. The estate was in that case let for about half its agricultural value.

By the CHAIRMAN: I do not think any wire netting would suffice for catching rabbits. The wire netting which I used was firmly twisted with furze laid on the top of the bank, the netting leaning towards the grove. The netting did not stop the rabbits; they burrowed under the bank. I did not try the effect of letting the wire six inches into the bank. Friends of mine had tried it, and they said it was of no use. I think erecting a bank with wire fencing is the most effectual way of keeping out rabbits.

Should you be satisfied if landlords were bound to put up such fences?—I should be satisfied if it had the desired effect, but I would rather the thing was done away with.

What you want is to be rid of the depredations of rabbits?—Yes.

Should you be satisfied if the person who owned the covert which harboured rabbits were bound to put up such a fence as you have described?—Yes, that would satisfy me.

But I understand you to contend that the farm tenant ought to have by law a concurrent right to kill ground game?—Yes.

You would not have that extended to other game?—No; I should like to see that preserved.

In what do you want the law to assist you?—I think we should have hares and rabbits struck out of the game-list, and an inalienable right to kill hares and rabbits notwithstanding any agreement to the contrary.

Examination by the CHAIRMAN continued: I think that strangers who come on the land to kill hares and rabbits should still be subject to a penalty, and that there should be a heavier punishment for going on the land in pursuit of hares and rabbits than for going upon it in pursuit of birds' nests or butterflies.

The CHAIRMAN: Then in point of fact you would protect hares and rabbits by law?—So far as strangers are concerned.

You wish that hares and rabbits should be protected by law against strangers, but not against the farm tenant by law?—Yes, that is what I mean. I should be very sorry to see the game-laws abolished except as regards ground game.

I understand you to say that in every case in which you have appealed to the law your rights have been upheld?—Yes, but other tenants might not be so fortunate.

Your lease gave you the right to kill the rabbits, and the law has supported you in that right?—Yes.

So far you were satisfied?—It has cost me a great deal of money.

Do you think that as a rule where the landlord keeps the shooting in his own hands the tenants have reason to complain?—Oh! yes.

In that case, is the amount of game considered at all in the rent?—Yes.

Supposing the game were entirely annihilated would not the tenants have to pay a higher rent?—Yes.

And therefore there is some consideration on account of the game?—Yes.

Do not landlords or their agents generally say, when a farm has to be let, that the rabbits are to be kept down?—They say so, but they don't do it.

Do you not think that promise might be put in writing, and that any man of business should say, "I should like to have an agreement to that effect"?—I think very few would do that.

Do you not think that if the whole class of tenant-farmers were to determine not to take a farm without such an agreement that would produce the desired effect?—I am afraid there can never be such a combination of farmers.

You would never take a farm without such a condition?—Certainly not.

Nor advise any one else to do so?—No.

Then don't you think that tenant-farmers have the matter very much in their own hands?—Farmers are anxious to get farms.

There is a great competition for farms?—Yes.

Is it not commonly the case that there is an agreement that the tenant should be compensated for unreasonable damage?—I think it is rather uncommon.

Examination by the CHAIRMAN continued: To appeal to the landlord against a mere shooting tenant would be a roundabout process. I think there ought not to be any such tenants. My opinion that the farm-tenants should have the offer of the shooting applies to cultivated estates and not to moors.

The witness was then examined successively by the other members of the Committee.

By Mr. WINTERBOTHAM: He believed that there was a general indisposition on the part of landlords to let the shooting to tenant-farmers; and that they preferred letting it to a stranger. On the estate on which he farmed the tenants would gladly pay more than £200 a year for it. Perhaps the reason why a stranger was preferred was that there was a house to be occupied. His farm was protected from the game in the cover on three sides. If all the tenants on an estate were to erect a bank like his own the game in the wood would be starved; they would eat each other. Probably if hares and rabbits were taken out of the game list and nothing else done, most farmers would have to sign an agreement to protect them as they were protected now. The farmer would in that case be compelled to watch his labourers, and could only punish them by dismissal.

That would involve a great deal of trouble?—Yes.

The tenant would be under just as severe restrictions as he is now, and would have more trouble with his labourers?—Yes.

Then his "last state would be worse than his first"?—Yes, but then I want the other thing done. I think that hares and rabbits would be killed off more they are at present.

Do you not think that what you propose would make the state of feeling between landlord and tenant worse than it is now?—No, I do not.

What you want is a law rendering invalid the reservation by agreement of hares and rabbits?—Yes.

Examination by Mr. WINTERBOTHAM continued: Leases were not very common in his neighbourhood, and he supposed that his good fortune in getting one was owing to the estate being in Chancery. He thought that if tenants had a right of shooting, landlords would not preserve to anything like the extent that many of them do now. A bad landlord might turn out his tenants, but landlords generally would, he believed, respect the law.

By Sir G. GREY: Thought that if a tenant had a right of shooting concurrently with his landlord he should not be allowed to transfer his right without the landlord's consent. Many hares were killed by the tenant's crossing. Perhaps one reason why landlords did not like to let their shooting to farm tenants was, that they might afterwards wish to resume it, and their doing so would, if they had so let it, create great dissatisfaction.

By Sir M. BEACH: He did not think that if hares and rabbits were struck out of the game-list they would become extinct animals, and he believed that farmers did not desire that. What they complained of was the enormous preservation of game in plantations and coverts; they did not object so much to hares that went about the farm. He himself did not object as seriously to hares as to rabbits.

There are numerous cases in which the landlord and his tenants are on perfectly good terms as regards the preservation of game. Would you in such cases prevent it?—What I object to is over-preservation.

But does it not seem to you that there is a difference between highly-cultivated lands like those in Norfolk and land in some other parts of England?—Yes.

Then do you wish the same law to be applied to all?—I think that in the case of warrens and heaths it may be desirable to have hares and rabbits; but the case is different where the land is cultivated.

Mr. DENT: You have made sweeping charges against game-keepers. You say that they are a bad lot, and nearly all reformed poachers. Don't you think that is an unfounded charge against a large body of men many of whom are very respectable people?—I spoke from my own experience.

You stated that they were in the habit of breaking fences, leaving gates open, and what you call prowling about. Is that

the general feeling among farmers?—I know that as a general rule they are very much disrespected by farmers.

By Sir J. TRELAWNY: Thought farmers would be glad to pay more rent in order to have the game. He wanted to have something done to protect farmers against bad landlords as regarded game.

If game entirely ceased to be preserved, don't you think there might be a danger of landlords leaving the district?—I should be sorry for that, and I think a good law of trespass would prevent any such result.

[The witness was here pressed very much as to what amount of penalty he would have inflicted on trespassers.]

Sir G. GREY: I suppose you would have the penalty enough to deter the trespasser from trespassing again?—Yes.

By Lord ELCHO: Thought that on all cultivated land the owner, if he parted with the shooting, should be bound to offer it in the first instance to his tenants. Believed that a three-feet netting would be an effectual protection against rabbits. Admitted that if the alteration which he advocated were made tenants ought to pay a little more rent in consequence of the quantity of game being reduced. If there were not so much competition for farms, tenants would not suffer as much as they do from game. Did not know whether or not the existence of the "inalienable right" of which he had spoken would increase the amount of competition.

Must it not inevitably do so?—That is a very difficult question for me to answer.

He could not say whether it would be wise as a matter of principle for the legislature to do what he desired; but he wanted something done with regard to hares and rabbits. It was so extremely difficult to get farms that tenants were induced to sign what was opposed to their interests. He could not say whether it would be right to do anything to prevent competition for houses in Park-lane—that was quite out of his province. The alteration which he wished for would prevent a great deal of unpleasantness, and he believed that landlords would never regret it, because they would get their game much cheaper than they did at present. Most of the tenants would make very good gamekeepers. He had heard of a distinguished Scotch farmer named Hope. Was not aware that Mr. Loch's Bill contained the principle which he (witness) had advocated of an inalienable right irrespective of agreements. [Here the noble lord read a declaration of Mr. Hope made in discussion to the effect that he should regard any conduct inconsistent with an agreement on the part of the farmer as an immoral thing.] He could not express any opinion on that point; but he wanted something that would save farmers from the ravages of destructive animals. The position of a yearly tenant would perhaps not be much changed by an alteration of the law if he would not consent to any preservation of game.

Lord ELCHO having asked the witness in reference to exceptional cases of bad landlords and consequent hardships whether he thought it was the custom of the Legislature to protect minorities,

Sir G. GREY interposed with the remark that that was just what the Legislature had done, and one or two other members of the committee intimated their assent.

Examination continued.—He could not argue with the noble lord as to what was best to be done.

In reply to the question whether he did not think that the object would be secured by an agreement that a certain amount of game should be preserved, the rent being fixed accordingly, and there being a right to compensation in the event of the amount agreed for being exceeded, the witness said he thought such an arrangement would meet the grievance; adding that there would be great difficulty as to what the quantity of game was to be and the amount of damage done. He should like to see the question dealt with in a fair spirit of arbitration; but farms were generally let on a general understanding, and that was one source of difficulty. He had known cases in which the amount of game was greatly increased after a farmer entered on his occupation.

By Mr. MUNZ: Assuming that it could be determined beforehand what amount of game should be kept, difficulty would arise if the shooting were afterwards parted with by the landlord. With respect to trespass, he would leave a discretion to magistrates in cases in which trespassers had a gun or dog. As regarded the fact that men were willing to enter into objectionable agreements, the only explanation he could

offer was that there were more farmers than farms. Game preserving prevailed most where the holdings were not small. He should be very glad to pay for the shooting on his part of the estate on which he farmed. There was a strong and increasing feeling among the farmers in his district on the subject of ground game.

By Mr. SHERLOCK: In taking the farm he made his calculations as to rent on a certain basis as regarded game. He knew that Mr. Daniell, who then had the shooting, was a fair man, and did not expect any change in the quantity of game. The wire fencing he put up cost him about £50. On the whole he sustained a serious loss pecuniarily. There had been recently, as was admitted, about 400 head of game killed in one year, notwithstanding the wire fencing. He had suffered considerable annoyance from Mr. Budd's keepers. The class of trespassers who would look for birds' nests and butterflies would not be likely to do as much harm as trespassers in pursuit of hares and rabbits. It would, he supposed, be impossible to redress the grievance in question any more than other grievances without in some degree affecting existing rights.

By Mr. McLAGAN: He believed that Mr. Budd sells the game, and that there was some restriction in his lease with regard to the quantity of rabbits. Weasels did not seem to have much increased in number, but rats did. One evil of the over-preservation of game was the increase of other animals besides game that were destructive to crops. One reason why he did not go before the county court to seek compensation was a dread of the expense of litigation. He thought it might be of some use to take hares and rabbits out of the game list, even if farmers did not at the same time acquire an inalienable right to kill them. There would then be less temptation to preserve them, because they would be more easily killed. He believed that the present law did not give property in game to any one. The tenant had a right to kill it, and that right he generally handed over to the landlord. He thought that if hares and rabbits were struck out of the game list the law of trespass must be made more stringent. Even now he thought it was not sufficiently strong. All he thought farmers generally wanted was an inalienable right to kill hares and rabbits. Could not say whether the effect of the possession of such a right would be to increase the number of such animals. A tenant might injure his neighbours, but he did not know whether he would. He generally estimated the damage done by game in October. That was the best period for estimating it, even then it could not be all seen.

By Mr. ROLAND WINNE: The abolition of the game laws would no doubt encourage trespassers. He thought the tenant and the landlord should have a joint right of killing hares and rabbits on the farm. He should like also to see a joint right of killing in the woods. Keepers were in the habit of deceiving their employers as regarded rabbits. A 3 ft. bank and 2 ft. wire netting would, he believed, never keep out hares. The assessment committee generally fixed the rating on the basis of rental. He would like to see game rated, so that a landlord would be liable to an increased rating if the quantity of game increased.

By Mr. PELL: The general effect in his county of letting the shooting to a stranger was to create ill-will between the owners of property and the occupiers. Strangers had no sympathy with tenants, and did not care what injury was done. The case was generally different when the landlord had the shooting, as he showed some consideration for his tenants and neighbours. When the shooting was let to a stranger it created another interest on the estate, and farmers did not like it. As a rule far more game was kept by a stranger than by the landlord. He had heard of cases in which the game-keeper was stated to have the leversets as a perquisite, and supposing that to be so, there was a third interest created. The preservation of ground game interfered with good husbandry, and tended to destroy crops. He cultivated root crops, and ground game very much interfered with that. The underwood and timber in the wood adjoining his farm was assessed at 3s. 6d., an acre, his own land being assessed at £5. He did not think that if tenants had an inalienable right to part of the shooting they should be allowed to sell it without the landlord's consent.

By Mr. C. S. READ: It would be impossible to estimate the damage done by game in different seasons. No one could tell the amount of injury in the course of a year.

The committee then adjourned.

On Friday, June 7, the following further evidence was given.

Mr. Bailey, the London game-dealer, stated that of late years the supply of game had diminished. During the last fifteen years the price of all kinds of game had nearly doubled. Many rabbit warrens were now broken up. The only exception to this rule of diminution was grouse, which had never been so abundant as last year. He sold thousands at sixpence a piece. Grouse were imported to this country from North America in ice. The Continent of Europe took a good deal of winged game from London. Marseilles was the largest market. Belgium in one year exported 1,360,000 rabbits to London. The rabbits were fed on the produce of the gardens in Belgium—divested of their feet and skins for purposes of manure, and then sold in London at sixpence a pound. He made great capital out of the fact that, if hares and rabbits were taken out of the game list the supply would be greatly decreased, and thereby the price increased. In his opinion rabbits were mostly bought by working men, and thus the working man would, by the enhanced price of rabbits, be deprived of his Sunday delicacy, and it was impossible to compute the injury that would be inflicted on poor invalids. He was formerly a farmer, but he remarked that he was glad to get out of that occupation. Mr. McLagan suggested that there had been too many rabbits for the profit of the speculator. Mr. McCombie asked the witness, with reference to his statement that rabbits were cheaper than mutton, if he knew the difference in price between the hind leg and the fore leg of a sheep, and if the neck of a cattle beast did not sell for less money than the rest of the carcase. Mr. Bailey "gave up." A member of the Committee offered to supply the witness with pheasants' eggs at 14s. a dozen, the price which Mr. Bailey said he was willing to give.

At the sitting on Tuesday, Mr. Irvine, of Drum, Aberdeenshire, said that he was a justice of the peace for Aberdeenshire, and that for a period of thirty years he had been convener of the county. He also acted as chairman of quarter sessions, and had been an advocate ever since 1843. Was the author of a work on the Game-laws of Scotland. The chief difference between the laws of Scotland and England with regard to game was that under an old Scotch Act a property qualification was required. The Act had never been repealed, but it was not enforced; but the main difference between the laws of the two countries was that the right to the game was primarily in the possession of the landlord unless it was specially granted to the tenant. In Scotland, if an agreement or a lease between landlord and tenant was silent with regard to game, the game was the property of the landlord. Did not think the Scotch tenant was placed at a disadvantage in this respect with the English tenant. In very few cases, so far as witness knew, did tenants obtain the right to kill game. The law of game followed the same rule as related to mines, quarries, and minerals, the right to which was reserved to the landlord. In the event of the owner keeping an undue amount of game, the tenant had his remedy at law for any surplus damage that was done. Thus, the tenant on taking a farm, and undertaking to pay a certain rental, would understand what the amount of game was; and even if there was no special agreement with the owner, if the farm was overstocked with game the tenant would obtain his remedy. In the case of game straying from the preserves of a neighbouring proprietor, witness was of opinion that the owner of the farm on which it strayed would still be liable for damages. The point, however, had frequently been mooted, but had never been decided. It was not an uncommon thing for a Scotch tenant to obtain compensation for damages done to his crops by game, but these points were generally settled by arbitration or arrangement. It was exceedingly difficult to understand the amount of damage done by game. The general complaints from tenant-farmers arose from over-preservation on their own farms, but, at the same time, he had heard great complaints by tenants of the injury done by adjoining proprietors. He thought it would be practical for the owners of excessive preserves to confine their ground game. With regard to deer, formerly it was held they were the property of the crown, but now they were looked upon as the property of the proprietor of the soil. In the event of deer doing injury to a tenant's crop, the landlord clearly done was liable for the damage. The Poaching Prevention Act of 1862 had principally been used in his part of the country as a means of putting into operation the Trespass

Act of William IV. The Scotch law of trespass differed from the English law, as a person who was suspected of being about to trespass could have an interdict taken out against him, and then if the person committed the trespass afterwards he could be sued for damage, and also charged with contempt of court, and punished for this offence. Witness was opposed to the doctrine of "inalienable right to kill game." He had recently been present at a conference of tenant-farmers on the subject of the Game-laws, and he gathered that the majority of the farmers desired to have an inalienable right with the landlords to shoot rabbits and hares. Tenants, as a rule, did not like the shooting being let to strangers, preferring it to be kept by the landlords. He was not in favour of hares and rabbits being taken out of the game list, as he was certain that if this were done a very much more stringent law of trespass would be required, and that such a law would be felt to be very oppressive by the people of Scotland. With regard to amendments of the present law, he thought that all game cases should be taken from the justices of the peace, and that they should be tried by the judge ordinary and the sheriffs. He did not think the decisions of the magistrates had been over severe, but they were liable to exceptions, as they belonged to a class of men who had cases of this kind on their own property. He thought it would promote the purity of justice, and prevent undue feeling, if these cases were tried by another tribunal.

Mr. McCombie asked whether it had ever occurred to Mr. Irvine that, apart from the landlord and tenant, the body of the people had an interest in the cultivation of the soil, and whether the existing Game-laws did not injure them as much as the tenant-farmers? Whether Mr. Irvine knew of a single instance in which an Aberdeenshire farmer who sought to obtain the right to kill hares and rabbits had any chance at all of renewing his lease? Mr. Irvine was not aware of any such instance. Who feeds the hares? The landlords, said Mr. Irvine. What, does not the tenant do it? In the first instance, replied Mr. Irvine, but the landlord really does so unless he overstocks with game. Mr. Irvine admitted that the excessive preservation of game produced an exceedingly bad feeling between farmers and landowners. He also admitted that there was a great deal of sympathy with the poacher, but declined to admit that the community could never be brought to look upon game as a fair object of sport to "whomsoever could take it." He believed he was acquainted with a farmer who lived happily and on good terms with a landlord who preserved game to a great extent. He admitted that a farmer would rather suffer a little materially from game than bring an action against his landlord. He would not go so far as to say that unless a farmer submitted to the conditions of the landlord he would not get a farm at all. But it certainly was the case that, from the great competition for farms, men did submit to conditions which were not to their minds. Of course, when a farmer, from excessive competition and hard conditions, failed to get a farm, his only alternative was to go abroad or betake himself to another occupation.

Lord Elcho remarked that the sons of aristocrats and of everybody else had from various reasons to go abroad or betake themselves to employment not followed by their parents, and in reply to his lordship Mr. Irvine declined to admit that there was any ground for sympathy with a disappointed farmer any more than there was ground for sympathy with a class of persons to which reference had been made.

EXAMINATION OF MR. CLARE SEWELL READ, M.P.

At the meeting on Friday, June 14, Mr. C. S. Read, himself a member of the Committee, was examined at considerable length. The Chairman (Mr. Ward Hunt), as is customary, commenced the examination.

Mr. HUNT: What has been your experience, Mr. Read, as a tenant-farmer, in reference to the Game-laws?—Will you first allow me to state what the Central Chamber of Agriculture has done?

Mr. HUNT: Yes.

WITNESS: I have been requested by that Chamber to give evidence before this Committee. That body is composed of 99 local Chambers, and has a total constituency of 18,000 members.

Owners and occupiers?—Yes.

The witness then read a resolution passed by the Council of the Central Chamber on the 4th of April last, to the effect that none of the Bills then before Parliament was sufficient for the purpose of curing the evils of the preservation of ground game, but that the third clause of Mr. McLagan's Bill and the fourth clause of Mr. Loch's would be satisfactory.

Will you explain what those clauses were?—The clause in Mr. McLagan's Bill was for the putting of hares and rabbits out of the game-list, and that in Mr. Loch's was for establishing a joint and inalienable right on the part of the owner and the occupier to kill game. The Farmers' Club does not pass any resolutions at its meetings, but it has had several discussions in which the over-preservation of game has been denounced. The last paper on the subject was read by the Secretary eighteen months ago. It was entitled "Foxes v. Rabbits," and it proved that foxes are the farmers' best friends and rabbits his worst enemies.

Mr. DENT: That paper was read by Mr. Corbet?—Yes.

Mr. HUNT: What was the view taken by the "best friends"?—That wherever you had good fox-hunting you do not have a very large amount of ground game, and that fox-hunting is generally very beneficial to the farmer, inasmuch as it encourages landlords to keep at home, and enables tenants to join in sport without any material detriment to their crops.

Do you think that fox-hunting tends to prevent excessive preservation of ground game?—I think that, as a general rule, where there is a large preservation of ground game fox-hunting does not exist.

Have you had any experience of that?—Yes, in my own county. I have observed there that where foxes exist there is not much ground game preserved.

Lord ELCHO: The largest amount of game-preserving that I know of in the kingdom is in Leicestershire.

Mr. READ: What I have said is not merely my evidence, but the opinion of the Farmers' Club.

Mr. HUNT: They are in favour of fox-hunting, and not in favour of keeping up a large amount of ground game?—Just so.

You have farmed in Wales, Oxfordshire, and Norfolk?—Yes.

And you have, I believe, acted as a land-agent and valuer. Have you had great experience with regard to the over-preservation of game?—Unfortunately I have.

Can you estimate the damage done by game?—It is the most difficult task that I have ever undertaken.

You have been employed at times in valuing for other people as regards game?—I have been employed both by landlords and tenants, and also as an umpire.

There is no species of compensation that you can imagine?—It is generally argued on the part of the landlord that the bad farming of the tenant is the cause of the badness of the crops which are grown; while, on the other hand, the tenant insists that it is caused by game.

Then you cannot tell in different seasons what is the effect of the season?—In one season you can hardly perceive any harm arising from game, while in another season the same amount of game may almost totally destroy the crops.

Is it not a fact that game does a great deal of harm to wheat crops?—Yes, certainly; it does a great deal more harm on arable than on grass land.

Supposing that the crop is wheat, and the blade does not shoot high, the ground game has a much greater chance of damaging the crop?—Let me refer to my experience as regards wiring-off crops. I have had it proved that some one, we will suppose it is the gamekeeper, has turned rabbits into the enclosed portion of the land. I have also had it proved that some one, probably employed by the tenant, has sown artificial manure in that enclosed spot at night. There has been every species of rascality practised.

You mean that artificial manure was placed in that enclosed spot in order to create an impression that the excellence of the crop was due to the preservation of game?—I have known that in one instance. I mention it as an illustration of the difficulty which there is in assessing damage.

In both cases the acts which you have mentioned were wrongful?—Yes.

May I take it as your opinion that ground game does a great deal of damage to growing corn?—It does on heavy land in a wet season, and on light land in a dry season.

Does it do more harm where the land is highly manured than where it is not?—Generally it does.

Have you ever yourself put up wire-netting?—Yes.

What is your experience as to the possibility of protecting crops by that means?—My own experience has not been very extensive.

Then you do not rest upon your personal experience with regard to it?—I can only say with regard to the moderate amount of game kept in an adjoining covert, that with wire-netting I have had no difficulty in protecting my crops.

From hares and rabbits?—From rabbits. Against hares I don't think I can protect them, for two reasons—in the first place, that hares jump over the wire-netting, and in the next, that they go almost round the farm. I have never been able to keep them out.

Hares being great travellers get round to the crops which they want?—Yes.

And rabbits are not such travellers?—No. I believe that if you have two and a half feet of wire-netting, and six inches of it in the ground, and keep it constantly watched, in the great majority of instances that will keep out rabbits, unless they are very numerous or very hungry.

You think that a wire-netting will often keep out rabbits?—Yes. I believe that the necessity of putting some of it in the ground is not generally understood. I should like to say a word about my own farm in relation to this matter. I farm under a most excellent and liberal landlady. Although there is game on the farm, I have no complaint at all to make of damage by ground game, except as regards the coverts of an adjoining owner. I have this year put up 400 yards of wire-netting, at a cost of £15, and it is my opinion that that gentleman ought to have provided the wire-netting instead of the tenant who was injured.

What is the height of your wire-netting?—Two feet above the ground.

And six inches of it is put in the ground?—Yes; and I would recommend that that should always be done where it is practicable. It would be impossible to put up such a fencing on a stock farm, because the sheep would knock it down where you had a clover ley.

You might put up a wire-netting to protect the roots?—Yes. Still the damage of which you complain is chiefly damage to the white crops?—To white straw, and root crops.

Should you be satisfied if the proprietor of the covert adjoining your farm put up a wire-netting?—I should for my own part. I don't know whether you would like me to give the evidence on this point of a gentleman who has had more experience than I have.

Yes, if you have any facts to lay before us. Evidence is rather objectionable when you cannot cross-examine the party who makes the statements.—The gentleman to whom I allude has the management of a large estate in Norfolk. I don't suppose he would like his name to be mentioned, but I have a letter from him. He says, "I do not think any law to compel payment of damage done by a neighbour's game would be very satisfactory. It would lead to endless disputes and to a great amount of hard, if not false, swearing. The best and safest plan is that when hares and rabbits are kept on one property to the annoyance and injury of an adjoining proprietor, this proprietor should shut his eyes to etiquette, and use every means in his power to destroy them." He also recommends the putting up of a trapping-bank or wire-netting.

That is, such a trapping-bank as Mr. Mann described to us the other day?—Yes.

Don't you think a trapping-bank would be more annoying to a neighbouring proprietor than a simple wire-netting?—Yes. A trapping-bank would in all probability be regarded by the adjoining owner as more destructive to his game than a wire-netting.

Are you acquainted with any other part of the county where wire netting is employed?—Yes, in this instance there are miles of wire netting with a trapping bank, and there are also miles of it without a trapping bank.

You give a preference to wire netting with a trapping bank?—A trapping bank is more likely to offend a neighbouring proprietor than wire netting. In my limited experience I have had no difficulty in keeping rabbits out.

Do I understand you to say that a trapping bank is more likely to cause ill-feeling than wire netting?—Yes; but I don't care about the ill-feeling. I think the person who is the aggressor ought to keep out his rabbits.

You would prefer getting rid of the nuisance and being on

good terms with your neighbour to getting rid of it and being on ill terms?—Yes, but I consider that the man who kills the rabbits is not the aggressor.

The law allows the tenant to kill the rabbits upon the land in his own occupation, unless they are reserved?—Yes.

Therefore he cannot be an aggressor in the eyes of the law?—No, nor in anybody else's eyes except a game preserver's.

Supposing that hares and rabbits were so wired in a wood that they could not get out to feed, would it be possible for the owner of that wood to go on keeping a stock of rabbits?—Certainly not. There is a splendid wood which I have known for about twenty years, where the ground game have actually bitten the young timber, and unless there is some change of management it will be impossible to preserve pheasants there.

Is that a case in which the wood is surrounded by a farm?—No.

I put it to you whether, supposing the rabbits to be confined to the wood in consequence of a wire netting having been put up by an adjoining occupier, the destruction of the wood would in that case be rapid?—Yes, and I apprehend also the destruction of the ground game itself. I have known rabbits that were so confined to be so starved that they were hardly worth shooting.

So that in that way the evil would work its own remedy?—Yes.

Sir SELWIN-IBBETSON: It would depend upon the size of the wood?—If there were the same number of rabbits per acre that would not matter.

Mr. HUNT: Rabbits do not travel very far for feeding?—I have never had practical experience of a wood of more than 70 acres. I don't believe there is one rabbit in that wood but what goes out at some time or other.

Rabbits generally burrow at the outer parts of the wood?—Yes; but there are a great number of cases on the stiff clay soil of Norfolk in which they do not burrow.

You think that in all cases they come out to feed?—Yes, provided they can get something better outside than they find inside.

If they are restricted to the wood they destroy the under-wood?—They not only destroy the underwood, but I have actually known them to destroy trees of quite 50 years' growth.

By a MEMBER.—They were oak and beech trees.

Is the land in the immediate neighbourhood of a wood let at a low rent in consequence of game being kept there?—I should say in my case certainly not, and in the case of neighbouring occupiers not.

Is your farm extensively abutted upon by a wood?—There are only two small plantations.

If the wood were stubbed up, or converted into arable land would not the farm be worth a higher rent?—If I had not the right to kill the game myself.

So that in fact the neighbourhood of a large game preserve is taken into consideration in setting the rent of a farm?—Well, it ought to be; I don't know that it is.

That being the case, does it make any difference whether or not the owner of the adjoining cover goes to the expense of putting up a wire netting?—He is the man who commits the nuisance, and he has no right to do it.

Supposing he were compelled to put up a netting, would you have him put it on his own land or on the farm the occupier of which complained of the nuisance?—I should insist upon his fencing his game in.

On his own land?—On his own land.

Would not that very often be a difficulty, a ditch separating the farm from the cover and forming the boundary between the two?—I suppose there would be a ditch.

The edge of the ditch would be the boundary?—Yes.

And there would be a right to four feet from the boundary?—That is the common rule.

Where would you have him put the wire—on the top of his own bank?—Yes, but the rabbits would get through.

Do you mean that they would burrow under?—Yes.

You think that the farmer should be allowed to put wire netting fence on his farm, and that the owner of the covert should pay the expense?—That would do very well if he paid the whole of it.

But supposing he paid the whole of it, whose property

would the netting be?—The property of the man who paid for it.

There would be a little difficulty in adjusting that, would there not?—There would be difficulty every way.

By Lord MAHON.—If the wire netting were on the farm the occupier should, I think, keep it in repair.

Mr. HUNT: Are you aware that in many parts of the country the putting up of a wire fencing has solved the whole difficulty of rabbits coming from a neighbouring covert?—Yes.

And by that means all complaint has been removed?—Yes.

Supposing it were not put up properly and the rabbits were allowed to burrow, the nuisance would continue?—Yes. It is the opinion of practical men that no fence raised against hares and rabbits can be effectual unless it is constantly watched.

By Sir SELWIN-IBBETSON.—If it were put on the farm the shepherd might watch it, and if on the covert the game-keeper might do so. The cost of looking after it would not be appreciable.

Do you think that the owner of the adjoining covert should in the first instance have the option of killing down the ground game?—Certainly.

The occupier of the adjoining farm might give him notice to kill down his game, saying that in the event of refusal he would compel him to put up a fence?—Certainly.

Do you think that if that were the law it would practically have the effect of keeping down ground game?—I think it would have the effect of removing the grievance which now exists, by preventing the tenant's crops from being consumed by his neighbour's game.

The knowledge of that would, you think, induce persons to kill down an excess of game?—I think so. I have been talking of game being in the hands of the owner. I may say that I have known cases in which when a preserve has been let to a tenant-farmer he has been just as bad, as regards the preservation of hares and rabbits, as the landlord.

You mean on his own farm?—Yes; and in coverts. He has caused quite as much nuisance as owners.

In fact, the taste for shooting is universal?—I believe it is not confined to any class. I have known as much damage done by tenants as by owners.

To their own crops?—To their own crops. I am speaking of cases in which the tenants were men of property, and could afford to suffer damage.

Do you not think that rabbits sometimes do some good?—I am positive that no rabbit that ever existed paid for being kept on the farm.

You have heard the evidence of Mr. Bailey as to its paying to keep tame rabbits?—There is no analogy between that case and the one under consideration. It is just like the difference between keeping a sheep in a fold and allowing it to wander all over the farm. No man could farm if his sheep went all over the farm. Rabbits kept in a hutch and not going about to get food may no doubt often yield a profit.

Are there not some parts of Norfolk which are more profitable for the breeding of wild rabbits than for anything else?—I can only say that I can remember as many as from fifteen to twenty thousand acres of rabbit warrens that have been done away with in my time.

What is the land turned into now?—Sheep walks.

And does it pay better as a sheep walk than it did as a rabbit warren?—I have no doubt it does, both directly and indirectly. One of the largest occupiers of warrens says that we have now in Norfolk only about five or six thousand acres of warrens altogether, that the usual stock of rabbits in a warren is about six or seven to the acre, that the kill in warrens of that description is not more, I think, than from eight to ten, and that independently of that you have to feed the rabbits. "My rabbits," he says, "are artificially fed from Michaelmas to March." That is the evidence of a gentleman who occupies the largest warren in my neighbourhood.

Can you tell us what is the nature of the fence which is used to confine rabbits in these warrens?—It is a sort of trapping bank on which is placed a quantity of furze horizontally.

Like a projecting tile?—Yes.

Do you know what price the rabbits fetch?—I have understood that the silver grey rabbits have been worth as much as 1s. 6d. or 2s.

In winter time?—Of course in winter time; they are not now worth half as much. The skin is exported to Russia; and just as we export gin and it comes back as brandy,

so we export these rabbits and it comes back as the grey fox (laughter).

Can you tell us about the quantity of wire netting that is sold annually?—I have some little idea. One firm at Norwich, Messrs. Barnards and Bishops, told me that their order book last year (which did not include what was sold in the shop or warehouse) gave a total of 1,248,309 yards of wire netting.

Can you tell us whether that was chiefly ordered by owners or by occupiers?—I imagine that three-fourths of it was bought for the protection of game, and no doubt some was bought to protect poultry. That is all I can say. My object in giving the figures I have done is to show that a great deal of wire is used for the purpose. I think that if it were not useful it would not be used.

Supposing a tenant were at liberty to kill the hares on his farm, he would have no difficulty in doing so?—None whatever. If he had a right to kill hares he would no doubt give a very good account of them.

You think that if you had that privilege you would not be eaten up on a snowy night by hares?—Except in an extremely open country. I may say with regard to the snaring of hares that it is considered a very blackguard practice. That feeling prevails to a wonderful extent.

But without snaring you might keep down the hares on your farm if you were allowed to do so?—Not without snaring.

Do you think that if the farmer had the right which you contend he ought to have, public opinion would sanction his snaring hares?—Certainly, although, as I have said before, it is now looked upon as a blackguard thing.

It is not considered sportsman-like?—No.

Mr. PELL: Is the trapping of a rabbit viewed in the same light?—No.

Mr. DENT: On a rabbit you would have no mercy?—None, and I would have none on a hare. I have been speaking of the sentiment of others.

What is the cost of your wire-netting?—The price is about 8½d. a yard for 13-inch netting, six inches being in the ground, and two feet out of it. It comes altogether to sixty-seven pounds a mile.

Supposing there were a third party with an intervening field between you and the wood, to whom would you look in case of injury?—To the owner of the wood.

How far do rabbits travel?—They may travel a quarter of a mile; hares will go four miles.

Lord ELCHO: How long do you think wire-netting will keep good?—If it is well galvanized and not taken up, it will, I imagine, require scarcely any expenditure upon it for 15 years. I have had some for eight years, and it seems quite as good as ever.

The Chamber of Agriculture said in their resolution that they thought hares and rabbits should be put out of the game list. What do you understand by that?—That the exceptional protection which the law gives to hares and rabbits should be dropped.

That no one should be prosecuted for trespassing in pursuit of hares and rabbits?—No, that while those persons who had the right to kill hares and rabbits should do it without let or hindrance, the law should be made more stringent against persons who trespass on the land, especially if they do so with dogs and guns.

A great number of questions were then put to the hon. gentleman as to the nature and extent of the alteration which he desired in the law of trespass, in connection with a reform of the Game-laws, the effect of his replies being that if men persisted in trespassing after repeated notice, even though they did no substantial damage, they should be liable to such a fine as would tend to put a stop to such conduct. He had, he said, known a case in which a man dug out a litter of foxes, and afterwards snapped his fingers in the face of the owner of the land, and cases in which rooks had been shot in a rookery with impunity. He thought that such cases proved the necessity for an alteration of the law of trespass.

Mr. HUNT: We now come, Mr. Read, to a new point. Do you agree with the Chamber of Agriculture that no landlord should have a right of killing ground game to the exclusion of his tenant?—I think the killing of ground game should be the joint and inalienable right of owners and occupiers.

What do you mean by "a joint and inalienable right?"—

I mean that the landlord should not be able to part with his right, nor the tenant with his.

Do you propose that the tenant should not have a power of transferring his right to another?

The right hon. gentleman here read the 4th clause of Mr. Loch's Bill *in extenso*; and Mr. Read afterwards observed that the Chamber of Agriculture had repudiated the idea that they would have such a clause applied to existing agreements.

Mr. HUNT: What they want is, that as regards all future agreements the tenant should have the right to kill hares and rabbits on the land which he occupies, notwithstanding any agreement or covenant to the contrary?—Yes.

Now, I want to know whether you think the tenant should have a right to let the right of killing hares and rabbit to a stranger?—No; not unless he had the whole of the shooting.

Under this clause in Mr. Loch's Bill he would have that right?—If that be so I should object to the clause, and I think the Central Chamber would do so too. That has not been generally supposed to be the intention of the Bill.

Mr. DENT: I understand Mr. Read to mean that he would not allow either the landlord or the tenant to let the right to kill ground game.

Do you approve of interference with freedom of contract?—Entirely. I think it is unjust to the tenant and unfair to the public for a landlord to reserve to himself the exclusive right of shooting ground game. At present the landlord has the privilege of feeding ground game on the arable land of his tenant without paying a single shilling for the damage, and he has further the power of disposing of that privilege to a third party.

Let us examine that statement. Has not a tenant a perfect right before he takes a farm to make any stipulations he pleases as regards ground game?—He has the right, but most distinctly and unquestionably he has not the power. Take my own case. I believe I am as respectable a tenant and as good a farmer as most persons of my class.

Mr. HUNT: We generally think so, Mr. Read.

Mr. READ: But I do not believe I could obtain a farm in the county of Norfolk either next Michaelmas or the Michaelmas after with an unrestricted right on my part to kill ground game.

You heard Mr. Mann declare that he had the right to kill ground game?—He has the right to kill rabbits but not hares. I say most distinctly that the general practice in Norfolk is for landlords to reserve ground game, especially in the East of Norfolk, and I don't think they would part with it to the best tenants.

Suppose the Farmers' Club, which comprises some of the best and leading agriculturists in the country, and the Central Chamber of Agriculture, were to agree that none of their members ought to take a farm without a concurrent right with the landlord of killing and keeping down ground game, do you think that would have any effect upon the agreements made in future?—It might have a little effect, but I am of opinion that if the whole race of tenant-farmers occupying the land of this country were cleared off plenty of idle and wealthy men would be found ready to take the farms.

In fact the occupation of farming is so much liked that men don't care much about the ground game (laughter). Does not that rather go to prove that the conditions of farming as regards game are not so onerous as some suppose?—It goes to prove that there is so much wealth in this country and so little land that people will enter upon a farm without much consideration of the question of making money by it.

Mr. PELL: Ignorance and speculation come into play?

Mr. READ: Ignorance, speculation, and unfounded hope.

Mr. HUNT: Suppose the law were altered as you propose, and tenants had a joint and inalienable right with their landlords to kill hares and rabbits, how do you think the law would operate? I think that in 99 cases out of every 100 things would go on exactly as they do now. I believe that where there was a moderate amount of ground game farmers would take no advantage of their right, and that where there was an immoderate amount farmers, finding that they were being eaten up, would exercise their right.

But is it not, after all, a question of rent?—It is not a mere question of rent. Damage from ground game is one of those things for which no reduction of rent can compensate the tenant.

Lord MAHON: Do you think a farmer would prefer paying

low rent with game, or full rent with no game?—A full rent and no game, but it is not altogether or chiefly a question of rent.

Mr. HUNT: You mean that such a quantity of hares and rabbits may be kept that no amount of reduction would compensate for it?—Yes.

Mr. WINTERBOTHAM: You would not object to a reasonable amount of ground game?—A reasonable amount of ground game, or even an unreasonable amount of winged game, might be compensated for by a reduction of rent.

Mr. PELL: When you said just now, in effect, that farmers would prefer full rents and no game to low rents and much game, did you mean that answer to apply to farmers generally, or to the better class of farmers?—I meant it to apply to any man with a good business head.

But there are many farmers without that topping? (laughter.—Needy farmers, as a rule, are most hopeful persons.

Would you not also say, foolish ones?—Most assuredly (laughter).

Mr. HUNT: Are not the Norfolk farmers considered to be about the head of their profession?—They are.

They are among the best and most intelligent farmers?—Some are.

And is not game preserved in Norfolk as much as in any other part of the country?—Yes.

Have you not a good deal of what is called very high farming in Norfolk?—Not on game estates.

Is not game preserved on Lord Leicester's estate?—Not running game. It is all inside the Park.

A Yorkshire witness said the other day that he would not mind one hare or one rabbit to every four acres. What should you say about that?—I should say that one hare in ten acres would be plenty. I would rather keep a young sheep all the year round than four unconfined hares.

What quantity of sheep per acre would your land bear?—Mine is chiefly arable land, and it bears about half a sheep per acre.

Mr. M'LAGAN: What is your system of crops?—The four-course rotation. I keep 200 sheep on 400 acres of land. My farm is what is considered a bullock grazing farm.

Mr. HUNT: Would you complain if there were one hare to four acres?—I think that would be an undue proportion on arable land.

Is the proportion of hares as great as that in Norfolk?—I should say that on half the land it is a great deal more.

In reply to further questions on this point, Mr. Read said he thought that on half the land in Norfolk there was not as much as one hare to four acres, and on the other half a great deal more.

In reply to questions with regard to the letting of the shooting, he repeated his opinion that the shooting of ground game ought in all cases to be offered in the first instance to the tenant when the landlord wished to part with it; adding that he did not care so much about winged game, and that what he was then saying was said on the supposition that the law in other respects remained as it is. He also said he thought that tenants would have less scruple in claiming damages against a person who had hired the shooting of the landlord than against the landlord himself, and that redress ought to be obtainable in the County Court.

Mr. HUNT: Have you any suggestion to make with regard to the law of rating?—I think the law requires to be altered. At present if the game is let to the tenant it is both taxable and rateable; if it is let to another person it is taxable but not rateable; if it is kept by the owner it pays neither taxes nor rates.

If it is let to the tenant you say it is taxable and rateable?—Yes; the moment it is let to an agricultural tenant the Assessment Committee rates it.

In Scotland all the shooting is assessable?—It is when let.

Do you think that should be the case in England?—I don't like the Scotch law at all. That law applies to cases in which game is let; I would have the same law applied to all game. [Here the hon. gentleman quoted from a Bill on the subject, which he introduced in the House of Commons to carry out his view in 1868.]

You would treat the land as if there were no game upon it, and consider what it ought to let irrespective of game?—Yes.

Would you let that be a matter of bargain between landlord and tenant?—I would as regards all future agreements.

And do you think the tenant would be able to protect himself?—Yes.

Then why should he not be able to protect himself as regards hares and rabbits?—Because, whereas in the one case you know very well what you have to pay, in the other you cannot possibly tell the cost. A hundred hares this year may become 200 next.

Several other questions followed on this point, and Mr. Read, in replying to one of them, observed that landlords who would not any account allow tenants to have the game would let their land for a reasonable rent.

Mr. DENT: You mean that they like the game more than the money?—Yes (laughter).

Mr. Read then, with the permission of the chairman, read an extract from a letter of Mr. T. F. Salter, whom he described as a large land-agent in Norfolk, referring to a farm of 1,500 acres in that county in which there was a great deal of game, and which is now in the occupation of a retired gamekeeper, and stating that that farm is rated at £350 a-year, whereas without game it would be rated at £1,000 a-year.

Mr. HUNT: Do you think that the change you propose with regard to rating would tend to redress that grievance?—I think it would. I may say that notwithstanding the extreme lowness of the rent there have been two tenants on the farm in the last five or six years.

Mr. DENT: Is that owing to the game, or to the natural poverty of the land?—The land is poor and utterly unable to stand against the ravages of game.

Lord ELCHO: Were the farmers who have occupied it lately good ones?—No good farmer would take such land, unless this retired gamekeeper should prove a good one.

In reply to questions respecting the operation of the Poaching Prevention Act, Mr. Read said he thought it had done good by leading to the discovery of other offences than poaching, in consequence of the searching power given to the police, and that he believed what farmers complained of was that while the police were so useful to game preservers, the owners of game paid nothing towards the cost of the police. He likewise said that he thought game should have no special privilege as regarded the question of identification, and that chickens should in prosecutions be treated in the same manner as game. He apprehended that the mere fact of a man being found with a pheasant on his person at 5 o'clock in the morning would be sufficient to convict, and he wanted the law to be made similar as regarded poultry. The hon. member then mentioned a case that practically illustrated the difference which he wished to have removed.

In reply to Mr. Cowper, Mr. Read said he believed that in almost all game-preserving districts farm labourers were badly employed, farmers not being able to employ a large number, while many labourers in consequence of being employed at night as watchers became drunkards. Now and then a man who accidentally or inadvertently poached was driven by that to something worse, but he did not believe in the demoralising effect of game preservation as a rule. Labourers knew that they had no more right to go out at night to kill hares than they had to steal.

In reply to Lord Elcho, the witness said that his objections to game were chiefly confined to ground game, and that he thought winged game did not, on the whole, do much harm. He then read the opinion of an extensive land agent in Norfolk in support of the latter view. It was not fair to cast the burden of killing such vermin as hares and rabbits upon occupiers. A large quantity of rabbits would destroy the crops in spite of all that could be done to prevent it. He did not think it would be sufficient for a tenant who suffered from an adjoining proprietor's game to be left to obtain compensation from him; but that was the smallest part of the entire evil. In the great majority of cases, taking England throughout, tenants had no cause to complain. His proposal that in the event of a landlord letting his shooting the tenant should have the first offer, was confined to ground game. He thought that Parliament should not refuse to enact that, and that such an enactment would not injure the landlord's property. In many cases it would increase the rental. If the landlord wished to transfer his right of killing rabbits, he ought to be compelled by law to offer the refusal to the tenant, and he believed the tenant would give more for it than anyone else.

By Mr. PELL.—He would himself look upon what he paid for the right of shooting as an insurance against ruin,

By Lord ELCHO.—As regarded rating, it was as easy as possible to tell what land was worth without game, while no one could say what it would be worth with game; no one could estimate the future damage from hares and rabbits. Giving the tenant an easy way of going to law with his landlord would not do away with the evil. He would not give two-pence for the Bill before Parliament which had been introduced by the Government for that purpose. No Act for cheapening the law as between landlord and tenant would do any good. In any legislation it would be better to prevent the mischief than to provide for the payment of compensation after it was done. Hares travelled a great distance outside preserves, and if there were an unrestricted liberty of killing them a large proportion would never return. It was possible that under such a discriminating law of trespass as he advocated a landlord would still be able to preserve ground game; but it would be more difficult than it is now. Freedom of contract was very much interfered with in this country. It was interfered with in the case of parent and child, master and servant, solicitor and client, trustee and beneficiary, debtor and creditor, guardian and ward, agent and principal, buyer and seller, carrier and consignor, doctor and patient, inn-keeper and tippler, pawnbroker and pledger, patron and presentee, captain and seaman, salvors and ship, mortgagor and mortgagee. Why, then, should it not interfere between landlord and tenant?

Here the noble lord put to Mr. Read a question of considerable length as to whether he approved of the interference with the rights of property in the case of the Irish Land Act, and, quoting a speech which he made on that subject, asked him in effect how he reconciled it with the evidence he was giving. The witness replied that he did not approve of that part of the Act in question which gave compensation for what was called "disturbance," but he entirely approved of the compensation of tenants in both countries for unexhausted improvements. The Irish Land Act, in his opinion, tended to create an injustice; whereas what he desired was legislation to stop an evil and prevent injustice. The majority of the tenants belonging to the Central Chamber of Agriculture were large tenants rather than small ones, and what the Chamber wanted was a general law to meet an exceptional evil. In the case of a non-preserving landlord legislative interference was unnecessary; and he saw no reason to doubt that preserving ones would obey the law.

By Mr. PELL.—There were many landlords in the Central Chamber of Agriculture, and it was the general opinion of the agricultural press that landlords had far too much influence in it.

By the CHAIRMAN.—At least one-third of the delegates sent up from the country were landowners.

By Lord ELCHO.—He should guess that at least one-eighth of the 18,000 members were landowners; in Norfolk the proportion, including some yeomen who owned land, was about one-fourth.

By Sir J. TRELAWNEY.—In many districts it would be very difficult, if not impossible, to put up wire-fencing. If one mile of it could be put up any quantity might be under the same conditions.

By Mr. McCOMBIE.—He was the owner of some land which he let with the game. He did not know one farmer in the county of Norfolk who wished for the total abolition of the Game-laws. He did not know that he had any authority for saying that farmers would be satisfied with hares and rabbits being taken out of the game list beyond the resolutions which he had mentioned. He did not think the chambers which he had referred to were as much political as agricultural, though he knew a portion of the agricultural press had said that. Such bodies represented landlords, he believed, as fairly as tenants. His experience of the influence of tenant-farmers in Parliament was limited and unsatisfactory. Personally, he would be satisfied with getting rid of hares and rabbits, and he believed tenant-farmers generally agreed with him. The Scottish Chamber of Agriculture seemed to have a progressive opinion on the subject of game.

Mr. McCOMBIE: You are aware that we know a little about farming in Scotland?

WITNESS: You think you do (laughter). (After a pause) And I think so.

By Sir SELWIN-IBBETSON.—If there were a concurrent and inalienable right on the part of landlord and tenant to

kill ground game, that would not prevent the tenant from agreeing with his landlord. Under such circumstances it might happen that the landlord and tenant would be shooting at the same time. He felt quite sure that no reasonable farmer would intend to do anything to annoy his landlord. If a tenant wished to do that he could do it now; and he knew a case in which a farmer sent eight horse-hoes into the field whenever he knew that his landlord was going to shoot, in order to drive the birds away.

By Mr. McCOMBIE.—He believed that the House of Commons was likely to grant what he advocated.

Mr. McCombie here put two or three long questions, which

he read with such rapidity that the Government shorthand-writer could not possibly take them down, as to whether he thought that some tenant-farmers in Parliament, after the course they had pursued, were likely to be returned at the next general election. The witness replied to the effect that he expected to be returned himself, but of course could not say what Mr. McCombie's chances were—a repartee which caused loud laughter.

A division in the House of Commons was then announced; whereupon, it being a quarter to four, the Committee at once adjourned till to-morrow, when some Aberdeen witnesses will give evidence.

THE FARMING OF LOMBARDY.

There is no other spot in Europe where the traveller meets with such varied systems of agriculture, or so many different customs, as may be seen during the course of a day's journey through Lombardy. The high wall of the Alps, which separates Italy from Switzerland, throws out other and lower hills stretching down rich and fertile to the plain, which lies, in shape like a vast spear-head, at their foot. This plain is watered by the Ticino, Mincio, and Adda, streams which descending from the Alps, become the tributaries of the Po, but are not absorbed until they have played their part in the important scheme of irrigation that forms so prominent a feature in Lombard agriculture. The productions extend from the lemon and olive trees of the lake of Garda to the pasture-grounds of the mountains. Vines and mulberry trees, with wheat, Indian corn, and other grain, are grown on the hills and upper plain, while rice, flax, and hay make up the chief products of the irrigated lands. Lombardy, besides being the seat of considerable manufacturing industry, is rich in silk, cheese, and butter.

Such are the general productions of the country; but there is one portion called the Milanese which, in a small compass, offers the variety shown on a large scale by the whole region. From a report drawn up by the President of the Milan Chamber of Agriculture, we become acquainted with the characteristics of this district. It has in its vicinity the city and suburbs of the city of Milan which forms a centre of great commercial and industrial activity, facilitating the sale of rural produce and the spread countrywards of capital and instruction. At Milan, the climate which may be taken as representing the average condition of the plain generally, makes the summers like those of Rome and Cagliari, and the winters colder than those of Paris. On the northern part extending to the foot of the hills, the proprietors superintend the metayers on their estates: the peasantry under the metayer system are more independent than in the lower zone; the population is dense and laborious; the fields are cultivated with corn, maize, vines, and the mulberry-tree, but the produce is subject to drought, to the oidium, and to the silkworm disease. In the middle district the crops are more flourishing than in the upper under the use of sewage-manure brought from Milan, and by means of irrigation, which, if not very abundant, is sufficient to permit meadows and rice-fields to alternate with corn, maize, and the plantation of mulberry-trees. In the lower zone there are no metayers: the population, not so dense, is less independent, but production is more certain. The peasant is not attached to the soil, but his daily bread is assured. Here the farms are of large extent, in order that the mechanism of irrigation may be fully utilised; and on them is found a class of farmers possessed of means, activity, and intelligence, the true representatives of agricultural industry. With few exceptions, the estates in this district are leased

out to tenants for terms of nine or twelve years. It is in this portion of the territory that tradition, study, and indefatigable labour have produced that system of irrigation which so justly forms the admiration of strangers. Here wheat, the vine, and the mulberry are either not cultivated or are of secondary importance, and their place is supplied by rice-fields and meadow-lands. The rice, under the modern system of culture, and with improved methods of irrigation, grows with luxuriance, while, by means of the evergreen meadows—the famous *marcite*—numerous herds of cattle are maintained, their milk, made into butter and *parmesan* cheese, and their copious manure, forming no small part of the agricultural wealth of Lombardy.

The winter meadows, or "*marcite*" are an exclusively Lombard—almost a Milanese production. These meadows have this peculiarity, that they are constantly under irrigation in winter as well as in summer. The land is divided into several compartments, so that the surface may be always covered with a thin sheet of running water, which maintains the activity of the vegetation, even during the cold weather. For the "*marcite*," the waters of the nearest spring are preferred, to the streams laden with town sewage. A heavy crop is cut in these meadows every sixty or seventy days, and in those irrigated by the waters which contain the sewage of Milan, every forty or forty-five days; so that from six to nine crops are obtained per annum. Vegetation continuing throughout the year, the cows, except during one month, are constantly fed on green fodder, a fact having great influence on the quantity of milk produced. In order to obtain the greatest profit from the meadows, large numbers of cows, besides draught oxen and horses, are kept on the farms, which are well provided with stabling, cow-houses, hay-lofts, &c. To make a "*forma*" per diem, which is the name for a cheese weighing from 50 to 90 kilogrammes, not less than 50 cows are required, and on some farms as many as 120 to 160 head are kept. When the cows on the farm are few in number, the owners either join together in making the cheese, or sell the milk to the professional cheesemaker. But little attention is paid to the breeding of cattle, and the number of animals reared in the district is very limited. The cows are imported chiefly from the Swiss cantons of Schwitz, Lucerne, Zug, Uri, and Unterwalden. Brought into Lombardy when three or four years old, before they have completed their full growth, and fed on the tender and succulent herbage of the plain, they fill out and grow so rapidly that a cow of the largest breed, called "*matronale*," where there are no "*marcite*," will give forty or more Milanese brenti of milk per annum. The Swiss cows, born in a healthy climate, and fed on aromatic herbs, and carefully bred, are of sound constitution, and capable of resisting the inclemency of the seasons. They are good milkers, long-lived, and subject only to

ordinary maladies, for which reasons they are preferred to the native breed. The breeding of live stock shows a tendency to improvement, and might become a source of considerable prosperity to the country as a nursery of cows required for Lower Lombardy.

In the upper or dry zone the land is held upon tenancies for a money rent; but these are so few as hardly to deserve notice. There are, however, the metayer farms, or the small holdings, let out to peasants, on which some products are reserved for the sole benefit of the proprietors: others, such as the grapes and the cocons, are divided equally between the landlord and tenant; while others again, such as the Indian corn, are for the separate use of the latter. These holdings are generally of from 2 to 2½ hectares in extent, and are annual. In the lower or irrigated zone the tenancies are generally held on lease for from nine to twelve years, and the farms on an average are from 80 to 100 hectares in extent. They are let out for a money rent, the farmer being the sole proprietor of the produce. In addition to the rent, however, the tenants are liable to certain supplements, such as the supply of a specific quantity of farm produce, the payment of the communal taxes, the carriage of the building materials, when required, and the like. The metayers pay their rent in corn at harvest-time, the proprietor taking his share from the thrashing-floor. For the other products the amounts are made up every year on St. Martin's Day (11th November). The tenants of the lower plain generally pay their rent in two rates, although sometimes the payment is divided into three. Improvements to buildings and the acquisition of a larger supply of water are made by the landlord, to whom the

tenant undertakes to pay the interest of monies thus expended. The improvements to the land are annually made by the tenant, either against compensation to be determined at the end of the lease, or in return for the trees and other plants existing on the land to be cleared, or it may be as a charge on the lease itself. But even for improvements to buildings made by the landlord the tenant is bound to supply the carriage of the required materials at his own expense. The relations between the landlord and tenant are, on the whole, friendly, although the conditions imposed on the occupiers are generally heavy, and sometimes exorbitant.

The proportion between meadow and arable lands, in the lower zone, is as one to two; in the upper it is sometimes as one to 100, and occasionally *nil*. In the upper zone, where small farms are held by metayers, hired labourers are very few in number, the labour power of each family being sufficient for the cultivation of their land. The small proprietors live on their own properties. Those who till their own soil are generally poorly off, and those who employ others to work for them are in a more prosperous condition. The dress of the small working proprietors is composed of a linen shirt, and fustian trousers, waistcoat, and jacket: when the weather is cold they wear in addition a thick white woollen under-waistcoat. The dwellings of the peasantry are generally bad, with the exception of a few farms in the upper plain, where the requirements of the silk husbandry have induced proprietors to make the cottages of the metayers somewhat more airy and commodious than usual. In the upper plain small properties become more numerous as you advance towards the mountains.

THE HISTORY OF TIPTREE HALL.

In order to remove agitation, excitement, and divergence of opinion as regards the history of this farm, I will simply state the facts, and leave readers to draw their own conclusions. The farm, when I bought it, was known as Sadler's Farm, because a very worthy farmer of that name had occupied it originally for many years. Its name in the deeds was Bigmore's Farm. It was never called a Hall until I so named it, after rebuilding the whole of the premises on a new site. My original purchase was 128 acres and some poles, for £3,150, or a fraction under £24 per acre. I bought it in 1841, of a respectable land agent, who once farmed it himself, and it was considered a reasonable price. The tenant then in possession paid £150 per annum rent for it. The great and small tithes were commuted (fortunately, just before I made my improvements) at 5s. per acre. The farmhouse was an ancient white-washed lath-and-plaster building; the bed-rooms were in the roof, lofty in the centre, and coming down at the eaves to about 18 inches, as near as I can remember. The old thatched farm-buildings were detached from each other, and the north-east or any other wind had free passage between them. In fact, it was just such a piece of antiquity as one too frequently sees in this and other counties. The land was undrained, the fields and open ditches numerous, and of various and irregular shapes, as are at this moment most of the fields in Essex. There was a bog (unsafe for man or beast) called the Wabbings, and a winding road down from Potter Row Lane to the premises, having a great hedge and ditch on each side with trees. By-the-bye, I paid £100 for the timber on the farm. There were sundry odd pieces of waste, which I enclosed. I removed altogether about 3½ miles of fences, and filled in ditches, and have now 60 acres in one enclosure, and 42 in another, without a tree, but I have a shrubbery of some two acres for the birds to breed in. I have no doubt that in favourable seasons respectable crops were grown on the limited area available for cereals, but a wet season must have been disastrous, for when I first visited the farm, in September, 1842, on a wet day, with my old friend Dean (now hearty at

87), the light land was swampy, and the heavy as loving as birdlime, but as slippery as butter. The men assured me that some of the wheat crops that year yielded only about 1½ to 2 quarters per acre; and, judging by the weak stubble and paucity of stacks, I can easily believe it. Now, owing to my deep drainage, the light land is always dry and workable, and the bog especially so, and I send down to my neighbours for many miles about 40 to 45 gallons of pure water each minute—summer and winter—more in the latter. The late medical man of the district used, jocularly, to say that I had spoiled all his best cases of fever down that line of brook. Any one who will take the trouble to inquire of some of the old men on our heath about the comparative condition and yield of this farm now and formerly will soon arrive at a satisfactory conclusion. Finding the old buildings too tender for substantial repair, and otherwise unsuitable, I cleared the lot away—a very easy task—and erected a new house and homestead on higher ground, for when I first visited the farm I noticed a heap of peas growing from damp in what had been the best room. In fact, the bailiff there lost his wife and several children from fever in a short space of time. In our new buildings health for man and beast for thirty years has been the order of the day. Some land adjoining, which I subsequently purchased, was enclosed from the heath about 90 years ago. Now comes the great fox question. Foxes often come into this neighbourhood, and one Saturday afternoon some years ago a brace of them killed 17 turkeys on an adjoining farm while the farmer was at market, and buried many of them in the dung-heaps, which were unsprung on the fields. A few years ago a hard run vixen fox ran into a drain near my gate. It was a very cold day (Tiptree nipper), so I invited the hunters (about 30) to refresh themselves, and they speedily cleared out all mine and my bailiff's bread and cheese, but the sherry held out. This led to my fixing a day for a general meet here and a champagne breakfast, when 150 red coats made their appearance on a bright day, and had good sport. A pretty sight it was, and I hope the manly sport of fox-hunting

will never leave us. When the said thirty drank my health and gave the view halloo! the hounds, finding the hall door ajar, rushed into the drawing-room, to the dismay of the hunters, who feared their dashing through the plate-glass windows, but I tranquillised them by my knowledge and assurance that plate-glass, if stout, is dog-proof. I can readily believe that Mr. Smythies' father (who by-the-bye was one of the best judges of cattle in England) did make the remark, "that Tiptree Heath was too poor to hold the scent of a fox," for despite all that unfriendly critics may say or desire to the contrary, it has always had a bad name, and is spoken of contemptuously as poor cold Tiptree Heath, and sometimes "Tiptree Heath, God help you!" Its natural growth is of furze, broom, and ferns, which come spontaneously where I happen to leave a spot uncultivated, and furze fences thrive luxuriously. Still there is no doubt that the land, like most other common land, is improvable, as proved by my crops, and only requires drainage, deeper cultivation, and plenty of good manure, made by fattening stock. On one of these fields I grew, in 1868, 8 quarters of white wheat per acre, and realised from the corn and straw £28 per acre, or £4 more than I paid for the fee-simple; and in 1869 the same field yielded $7\frac{1}{2}$ qrs. of Rivett wheat. In 1870, 39 tons of mangal, and in 1871, 5 qrs. of red wheat per acre; and it has now a promising growing crop of beans, to be followed by wheat. Other fields have often yielded 7 qrs. of wheat per acre. The moral I draw from my farm operations is that example, good or bad, has, after a time, its influence. Thirty years ago I was pronounced to be somebody not very sensible, but now I can compliment many of my neighbours upon having adopted the very plans they once condemned. It is really gratifying and almost surprising to see what a change has come over the scene in this immediate neighbourhood. Huge fences, green lanes, trees, &c., departed; land drained, clean cultivation, roads improved, new cottages and farm buildings. Even Mr. Mechi's 15 feet extravagant 25s. iron sheep-hurdles (inwear 28 years) are now "the order of the day," one firm in Colchester selling 100 weekly. I was the first who introduced hereabout "that 'ere Huano" (guano), as some of the natives called it, and who did not then believe that a mere "peppering" could do the land any good—nothing like "solid muck." Well, it is a pleasant thing, a very pleasant thing, to meet one's neighbours with smiling faces, and a tacit admission that one has done some good; but the labourers, who know what agricultural improvement means, and what it has done for them and their families, express to me, and I know, feel a deep sentiment of gratitude for the change that has taken place in their condition in this neighbourhood within the last 30 years. It is natural that there should be some jealousy and dislike on the part of those who don't believe in modern changes, but cling affectionately to "the good old times." They should, however, try to reconcile and adapt themselves to this steam age, for the bubbling kettle has upset and deranged many a comfortable old prejudice or attachment, and made many people angry; but millions have received, and will continue to receive, its comforts and advantages. It is not possible to please everybody, and I never expected to do so. The people of England want more bread, meat, and other consumables, and as the land of England is neither half-farmed nor half-capitalised, by landowner or by tenant, there must and will be great changes and improvements. Observation and experience have taught me, especially in this neighbourhood, that the grand remedy for this uncomfortable state of things is frequent change of ownership, by which means new sentiments and new and additional capital flow into agricultural improvement. Therefore, I am decidedly opposed to fixity of tenure by the laws of entail and primogeniture.—J. J. MECHE.

THE CORN AVERAGES.—At a meeting of the Morpeth Chamber of Agriculture on June 19th, Mr. Thomas Lawson, Longhurst Grange, in the chair, a petition to Parliament was unanimously agreed to, asking the Legislature to abolish the use of the present weights and measures, and to pass a law establishing, instead of the present various weights and measures, one uniform scale, and to render its use compulsory throughout the United Kingdom. The following petition on corn averages was also agreed to: To the honourable the Commons of Great Britain and Ireland in Parliament assembled. The petition of the Morpeth Chamber of Agriculture humbly sheweth, that the weekly returns of the average

prices of British corn taken and published by the inspectors of the various markets in the district do not correctly represent the average value of British corn produced in this district or their various localities; that great injustice is hereby caused to all persons who pay tithe rent charges or other rents, or charges that are based on such corn averages, and that such injustice arises partly from the defective provisions of the Act of 5th Victoria, chap. 14, section 2nd, which provides for the manner by which the average price of British corn is to be obtained; that, it being legal to sell corn by either measure or weight, the said Act enacts that all British corn bought by weight or measure shall be computed, and set forth by according, and with reference to the imperial standard gallon, and yet said Act does not make any provision as to by what scale or mode the weight of any British corn (when such is bought by weight) shall be converted into measure; that a reasonable correct return might be obtained by annual inquisition, taken in a similar manner as is contained in the 14th section of chap. 3 of the 5th and 6th of William the Fourth. Your petitioners therefore pray your honourable House to so amend the Act of 5th Victoria, chap. 14, that the corn averages on which so many payments are based, may accurately represent the value of British grown corn, &c., &c., &c.; and your petitioners will ever pray, &c. It was also agreed that the practice of giving chap money or luckpenny out of contract at the time of payment might at the time at which it originated be a useful ratification of payment, but that the continuance of such a practice now possesses no advantage to either buyer or seller, and that its total abolition is desired. That a copy of this resolution be sent to the Central Chamber, and requesting that in the event of its approval some date be fixed for a general change to a net price. It was further resolved that the thanks of the Chamber should be sent by the secretary to Sir Massy Lopes, Bart., M.P., for the able manner in which he urged on the attention of the House of Commons the desirability of an adjustment of the basis on which our local taxation is at present assessed.

PROPOSED STEAM-PLOUGH AND TRACTION-ENGINE COMPANY.

On Friday, June 14, a meeting was called at the Westminster Palace Hotel by circular letter, which appears to have been very widely distributed, with the object of establishing a Company, in which "£50,000 might be immediately and profitably invested," from "the fact that upon nine-tenths of the cultivated land in England the steam-plough can be applied." The meeting was called for two o'clock; but the business did not commence until nearly an hour later, when beyond the members of the press there were scarcely more than a dozen persons present, and these of course included the promoters, Mr. King, of Beeton, Berks, being the only *bona fide* farmer recognizable. Mr. Horsman, M.P., who took the Chair, quoted figures and calculations in favour of the steam when compared with the horse plough. Mr. Chadwick, M.P., in whose name the meeting had been called, also gave figures to show that the Company had every promise of becoming a great commercial success. Mr. Caird, however, questioned the calculations offered, and gravely doubted whether there could ever be a saving of 40 per cent. in the cost of labour through the use of the steam plough, and also whether they could rely on an increase of 20 per cent. in produce! Mr. Bass, M.P., said that for a number of years he had lost a regular income by farming, which he could not have continued but for some more profitable business in which he was also engaged. He, however, made more money than he wished to do as a partner in the North Staffordshire Steam Ploughing Company, and, as he was sure the farmers were charged too much by his Company, he would gladly support any more general scheme. Mr. Wren Hoskyns referred to the steam-plough trials at Wolverhampton, but unfortunately had forgotten the depth at which they were taken. He also, we hear, doubted the flattering figures given by the promoters of the Company; and ultimately the following resolution was passed, and the remainder of the company quietly dispersed: "That the extension of the application of steam ploughing is a subject of great public importance, and worthy the encouragement of all who have the means and opportunity of promoting agricultural improvements." We have been furnished with a full report, which it would be idle to give.

SALE OF LORD BRAYBROOKE'S SHORT-HORN HERD,

AT AUDLEY END, ON THURSDAY, JUNE 6TH, 1872.

BY MR. H. STRAFFORD.

At this sale Mr. Strafford, assisted by Mr. W. Rand, dispersed fifty pure-bred Shorthorns, and a number of Southdown rams and Berkshire pigs. The Shorthorns were, however, the principal attraction, though there were several onlookers from the southern counties for the sheep. The herd is of some standing, a good stock of milking Shorthorn cows having been kept at Audley End for many years; besides the herd of Alderneys, which is said to have been formed more than half a century ago. The fashionable element was, however, introduced at a more recent period. The old Northallerton, or Duchess-Nancy tribe, somewhat ambitiously christened Grand Duchesses of Oxford, had just reached its first decade at Audley End. The Babraham sales supplied the Celia family; but the more favourite Knightley blood came from Fawsley in 1865. Save the Duchesses and Oxfords, no tribe of Shorthorns is more esteemed than the old Red Rose or Cambridge Rose family. The beauty, selected by Jonas Webb at Cobham, was secured by Lord Braybrooke when Mr. Webb's herd was scattered. She and her daughters, Heydon Rose and Christmas Rose, together with Christmas Rose 2nd, have formed quite a Rosary among the other beauties of Audley End, and given the herd a *distingué* character. After Second Duke of Claro had been hired from Colonel Gunter, and Fourth Duke of Geneva, a Cherry bull purchased from Lord Penrhyn, had been used, the strains were bred at home. The catalogue accordingly presented eight Second Duke of Claro cows, chiefly five years old, which averaged nearly 68 gs. apiece. The top lot of the sale was among these, as Emerald, out of Sir Charles Knightley's Galleon, a fine looking stylish animal, went after opposition from Sir G. R. Philips to Mr. Foster for 205 gs. Fourth Duke of Geneva left half-a-dozen, chiefly three and four years old, but among them were two Knightleys and a Northallerton, which sent the average of the half-dozen up to 93 gs. The union of these two series with the Roses produced Claro's Rose, a white bull, by the former, and Thorndale Duke by the latter, and these two bulls had been in service up to the present time; indeed Claro's Rose was offered, and went cheap enough to Mr. J. J. Sharp at 58 gs. There were seven lots by him, three being white, two Knightleys, and two Northallertons, and they average exactly 70 guineas each. This lot included a pretty roan bull-calf, called Fifth Duke of Oxford, though he had but remote kinship to the thousand guineas Holker bulls of that family. He was out of a Second Duke of Claro-Northallerton cow, and nearly doubled his dam's price, as he went for 100 gs. to Col. Morris, of New York. Thorndale Duke was not shown, but no less than ten heifers and nine bulls, many of them calves, came out by him. Among the heifers were two yearling Knightley's, one of them being out of Emerald, and two Northallertons; the former went for 150 gs. and 135 gs. respectively, and the latter for 90 gs. and 61 gs. Lord Feversham purchasing Erin (150 gs.), and Lord Penrhyn Grand Duchess of Oxford 3rd for 90 gs. The ten females by the sire averaged nearly 63 gs., and the nine bulls not quite 40 gs.

Many would be buyers were present for the three Cambridge Rose bulls. Lot 7. Heydon Duke 2nd, a handsome red yearling, brother to the bull that ran third at the Royal and Yorkshire shows two years ago, had excited most attention. In his box he was playful, and showed well when he walked into the ring before the other bulls; but after some preliminaries it was announced

that as yet he had proved impotent, and in consequence a reserve of 300 gs. would be put upon him, and as no bid was made, he was withdrawn. Then followed Christmas Duke, a white yearling, going rather queerly on his forelegs, but showing a good deal of style and character. After somewhat languid competition he was bought by Mr. Ratcliff for 125 gs. For the other bulls there was fair bidding, and considering that eight out of the fifteen were calves of this year, the average of 50 gs. was highly respectable. As a whole they were brought out well, and from the appearance of the cows it was evident that milk was certainly one of the best features of the herd. Mr. Crabb succeeded in retaining three of the best specimens in the county, and Mr. J. Clayden kept another. Several go into Hertfordshire, principally the Celias, which were bought by Col. Jones. The north was well represented, as Lord Feversham bought two or three; and Sir H. J. Selwin-Ibbetson, chairman of the lynch, also got a couple for Denton Park, on the banks of the Wharfe, where a herd flourished half a century since. Mr. Rand sold the sheep and pigs. The Downs were bred from the Babraham ewes, and the pigs from pure Berkshire stocks. The rams were put up at 5 gs. each, the larger number finding purchasers; and Col. Morris paid the two top prices, 21 and 31 gs., for a couple to go to America. The pigs also sold well, one young sow fetching 10½ gs., and a boar 7 gs. Although the day was showery, the sale was certainly a good one, well attended, and the arrangements every thing that could be desired, as in keeping with one of the finest estates and grandest mansions of old England.

COWS AND HEIFERS.

GALLEON, Mr. S. Canning, 40 gs.; MEMENTO, Mr. R. H. Crabb, 100 gs.; LADY FLORENCE BURDETT, Mr. Brown, 40 gs.; SOUVENIR, Mr. J. Clayden, 42 gs.; LADY ALICE BURDETT, Sir H. S. Ibbetson, 57 gs.; HAREBELL 6TH, Mr. Danby, 42 gs.; HAREBELL 7TH, Mr. Cooke, 43 gs.; EMERALD, Mr. J. P. Foster, 205 gs.; SUNFLOWER, Mr. Danby, 38 gs.; LEILA, Mr. C. Bayes, 36 gs.; THIRD DUCHESS OF OXFORD, Mr. G. Robinson, 66 gs.; FAIR MAID, Sir H. S. Ibbetson, 55 gs.; MEMORY, Mr. R. H. Crabb, 160 gs.; DUCHESS OF GRAFTON 2ND, Mr. C. H. Cook, 51 gs.; GUINEVERE, Sir G. R. Philips, 150 gs.; LADY CHERRY BURDETT, Col. Jones, 50 gs.; GRAND DUCHESS OF OXFORD, Mr. H. Sharpley, 100 gs.; HAREBELL 8TH, Mr. C. Barnard, 46 gs.; LADY ROSE BURDETT, Col. Jones, 50 gs.; FORGET-ME-NOT, Rev. C. W. Holbech, 80 gs.; HAREBELL 9TH, Mr. D. Turpin, 39 gs.; SULTANA, Mr. G. Underwood, 33 gs.; LADY GENEVA BURDETT, Mr. J. Sworder, 38 gs.; HAREBELL 10TH, Mr. Fison, 40 gs.; FAREWELL, Mr. J. Lynn, 125 gs.; ERIN, Lord Feversham, 150 gs.; REGRET, Mr. A. J. Roberts, 135 gs.; FIFTH DUCHESS OF OXFORD, Mr. D. McKinder, 78 gs.; HOURI, Mr. H. Webb, 45 gs.; LADY GRACE BURDETT, Col. Jones, 40 gs.; LADY JANE BURDETT, Col. Jones, 33 gs.; GRAND DUCHESS OF OXFORD 3RD, Lord Penrhyn, 93 gs.; GRAND DUCHESS OF OXFORD 4TH, Mr. R. H. Crabb, 61 gs.; HAREBELL 11TH, Mr. Brown, 23 gs.; HAIDEE, Mr. Woodhouse, 37 gs.; LADY MARY BURDETT, Col. Jones, 20 gs.

BULLS.

CLARO'S ROSE, Mr. J. J. Sharp, 58 gs.; PHANTOM, Mr. Gebhardt, 50 gs.; WIZARD, Mr. Chirnside, 52 gs.; BURDETT DUKE 1ST, Mr. Davies, 62 gs.; CHRISTMAS DUKE, Mr. R. Ratcliff, 125 gs.; SUNRISE, Mr. H. Gebhardt, 52 gs.; HEYDON DUKE 2ND (reserved, 300 gs.); TOKEN, Mr. T. B. Locke, 70 gs.; BURDETT DUKE 2ND, Mr. Jordan, 34 gs.; TALISMAN, Mr. H. Thurnall, 38 gs.; MAGICIAN, Mr. J. A. Osler, 20 gs.; DUKE OF GRAFTON, Mr. Hawkins, 16 gs.; FIFTH DUKE OF OXFORD, Col. Morris, America, 100 gs.; MERLIN, Mr. Jordan, 41 gs.; MAGIC, Mr. G. B. Gibson, 13 gs.; BURDETT DUKE 3RD, Mr. Potts, 13 gs.

SUMMARY.

	Average.	Total.
36 Cows	£71 2 2	£2,559 18 0
15 Bulls	52 1 8	781 4 0
—	—	—
51	£65 10 2	£3,341 2 0

SALE OF MR. J. H. BLUNDELL'S SHORTHORNS.

AT WOODSIDE, LUTON, ON FRIDAY, JUNE 7, 1872.

BY MR. JOHN THORNTON.

This herd, consisting of forty head, had been kept for some years for supplying the town of Luton with milk, in one year upwards of 9,500 gallons having been sent in. The cows showed well in the yards, and even better as they came into the ring, where there was a good and ready sale for them at satisfactory prices. Lot 2, a neat nice cow, went cheap enough to Mr. Kendrick at 40 gs., and her roan two-year-old heifer was secured for Mr. Singleton at 47s. Azalea, a red and white cow of Mr. Smith's blood, was purchased by Messrs. Perry, as well as her two-year-old heifer, the former at 42 gs., the latter at 52 gs. Lot 7, Dahlia 3rd died in calving a roan bull-calf, which Mr. J. K. Fowler purchased rather dearly at 28 gs. The most attractive lot in the sale was Flossy Gwynne, a fine large stylish cow and a good milker. Mr. C. Howard bid for her, but she was finally knocked down to Mr. Salt at 160 gs. The heifers were brought out well, and several of them went to Mr. Greenwell, of Putteridge Park. Lot 19, Dinah, a thick roan two-year-old, bred from the Weston Park herd, went for 43 gs. to Mr. A. Blundell, Suffolk, and Willow Twig, also from Weston Park stock, fetched 51 gs. to Mr. J. Singleton. The calves, which were by Polyphemus, were very taking, and ranged from 17 to 38 gs. Polyphemus himself headed the bulls; his excellent blood and fine fore-quarters were balanced by his age, and Mr. A. Blundell got him at a trifle over butcher's price. The two Gwynne bulls, the youngest of which was a little lame, both went to Mr. Bramley, and there was good bidding for the bull-calves. Some Berkshire pigs were offered after the sale, and made satisfactory prices, but the heavy showers damped the business which otherwise went off well.

COWS AND HEIFERS.

MOCKING BIRD, Mr. C. A. Tabor, 33 gs.; LADY AUGUSTA, Mrs. Strickland, 40 gs.; FAIRY PRINCESS, Mr. H. L. Michalls, 40 gs.; GRIZZA, Mr. E. J. SIMMS, 31 gs.; AZALEA, Messrs. T. and G. Perry, 42 gs.; GENOA, Mr. D. M. Brown, 38 gs.; roan bull-calf out of DAHLIA 3RD, Mr. J. K. Fowler, 28 gs.; DOT, Mr. C. A. Tabor, 30 gs.; FLOSSY GWYNNE, Mr. W. H. Salt, 160 gs.; CAULIFLOWER, Mr. T. Bates, 36 gs.; IRIS 2ND, Mr. W. Greenwell, 31 gs.; BRIDE, Mr. J. Ross, 32 gs.; LADY DUN, Mr. H. L. Michalls, 43 gs.; TRIFLE, Mr. W. Greenwell, 46 gs.; roan bull-calf out of TRIFLE, Mr. E. G. Ashwell, 7½ gs.; MAY BELLE, Mr. J. Ward, 46 gs.; red and white cow-calf out of MAY BELLE, Mr. E. Samm, 11 gs.; COSPETTO, Mr. J. Ward, 36 gs.; APPLE TREEWICK, Mr. T. and G. Perry, 52 gs.; DINAH, Mr. A. Blundell, 43 gs.; WHITE VIOLET, Mr. W. Greenwell, 39 gs.; ITEM, Mr. W. Greenwell, 35 gs.; TALLARU, Mr. D. M. Brown, 42 gs.; LADY APRIL, Mr. J. Singleton, 47 gs.; WILLOW TWIG, Mr. J. Singleton, 61 gs.; IDOTHEA, Mr. J. Ward, 32 gs.; GENUINE, Mr. J. Craven, 20 gs.; FAIR PRINCESS, Mr. J. Pressland, 22 gs.; GALATEA, Mr. D. M. Brown, 40 gs.; CONSTITUTION, Mr. D. W. Hill, 38 gs.; IDALIA, Mr. W. H. Cripps, 26 gs.; GRAVITATION, Mr. J. Pressland, 20 gs.; BREEZE, Mr. D. W. Hill, 28 gs.; DIPTHONG, Mr. G. Nott, 17 gs.; IMOGEN, Mr. G. Nott, 21 gs.

BULLS.

POLYPHEMUS, Mr. A. Blundell, 40 gs.; FOSTER GWYNNE, Mr. C. Bramley, 30 gs.; FAULTLESS GWYNNE, Mr. C. Bramley, 50 gs.; MERRY BOY, Mr. G. Nott, 20 gs.; FAIR PRINCE, Mr. G. Woodward, 33 gs.; LORD APRIL, Mr. R. Campion, 24 gs.; ACIS, Mr. Noble, 14 gs.

SUMMARY.

	£	s.	d.		£	s.	d.
33 Cows averaged	41	9	6	.....	1,368	13	6
7 Bulls „	31	13	0	.....	221	11	0
40 „	39	15	1	.....	£1,590	4	6

SALE OF MR. WOODWARD'S SHORT-HORNS AT ASHCURCH.

BY MR. J. THORNTON.

On Friday, June 14, Mr. Thornton sold fifty-one cows and heifers and eleven bulls from Mr. Woodward's extensive herd in Worcestershire. The catalogue stated that the stock had been founded in 1829—indeed Mr. Woodward has been appropriately called the father of Shorthorn breeders in the south-west. He was a zealous disciple of the Rev. Henry Berry and Mr. Jonas Whitaker, and the principles received then have been continued unto this day. With the late Mr. Bates and Mr. R. Booth he was also intimate, and without running in the rut of fashion he has from time to time admired the blood of their popular Shorthorns with his own herd, not quite directly, but in the diluted form of the second generation. Never an extravagant buyer, he has, notwithstanding, from time to time bought up well-bred cows or heifers and occasionally used their sons, so that although no fixed or defined principle has been adopted, a herd of thoroughly useful, healthy, and strong-constituted cattle has been reared. Bull breeding, like ram breeding, requires steady determined principles. Mr. Woodward's herd can hardly be called a bull-breeding herd, nevertheless probably no man has sent more bulls among the farmers of the adjoining counties at moderate prices, and worked an enormous amount of good among the original stock of the neighbourhood. From far and near, farmers came up to see the herd from which they had had—some almost in ages gone by—a bull. Milk and quality, health and strong constitution, were the things Mr. Woodward aimed at with pure blood, and he has succeeded in obtaining them. Those cows or heifers that were rearing calves, or in milk, showed their capabilities in that way; and some that had warped their calves late last season, after foot-and-mouth, evinced by their condition the disposition to lay on flesh. This circumstance, coupled, doubtless, with the badly kept bulling book at an off-farm, had an influence on several lots; otherwise there was good and lively competition for the best specimens, several of which made from 40 to 60 guineas each. Indeed, a few of the heifers, by their symmetry, quality, and general good looks, might easily walk away with many a local or county prize. The bulls as a lot were very fair, two or three very excellent, especially the last lot, a fine roan yearling, which went for 60 guineas. It was past noon ere the company assembled, and although provision was bountifully spread in the hop rooms for two hundred, many had to stand, or wait until the first party had finished. The sale went off lively and in good time, resulting in a general average of £35 5s. 6d. Subjoined are the prices: Cows and Heifers, lot 1, Blooming Lass and calf 37 guineas, Gardner; 2, Miss Nancy (daughter of Miss Nettle) and calf 35 guineas, Lovibond; 3, Water Lily and calf 45 guineas, Lovibond; 4, Madam 41 guineas, Cotes; 5, Maypole 33 guineas, Wardle; 6, Capsicum 27 guineas, Newman; 7, Fatima 35 guineas, Talbot; 8, Mimosa 28 guineas, Ludlow; 9, Lydia Bell and calf 42 guineas, Rev. H. Beckwith; 10, Cleopatra 6th 30 guineas, J. P. Wilkes; 11, Damson Pie 25 guineas, A. Newman; 12, Iceberg 33 guineas, John Woodward; 13, Medusa 36 guineas, W. Payne; 14, Dainty Maid 24 guineas, Pearce; 15, Dolly 39 guineas, J. Buckle; 16, Narcissa 19 guineas, A. Newman; 17, Beetread 32 guineas, Ludlow; 18, Bountiful Star and calf 52 guineas, Cox; 19, Matchmaker 26 guineas, Holder; 20, Thrush and calf 50½ guineas, Quicke; 21, Batwing 24 guineas, Holder; 22, Lady Agnes 31 guineas, Wardle; 23, Woodpecker 31 guineas, Wardle; 24, Twinkle and calf 45½ guineas, Gumbleton; 25, Day

Dream 31 guineas, Ludlow; 26, Milkbow and calf 57½ guineas, Cox; 27, Gentle Duchess 28 guineas, Nesham; 28, Louisa Bell 33 guineas, Neild; 29, Adelaide 30 guineas, Webb; 30, Beehive 27 guineas, Ratcliff; 31, Needful 26 guineas, A. Newman; 32, Dinah 51 guineas, E. Grey; 33, Damson Tart 29 guineas, Caldicott; 34, Serena 53 guineas, Burnett; 35, Isis 36 guineas, Hart; 36, Ladybird 25 guineas, Caldicott; 37, Twitter 52 guineas, G. Parry; 38, Lucy Bell 26 guineas, Quicke; 39, Fortune 28 guineas, Rev. H. Beckwith; 40, Dilatory 25 guineas, Quicke; 41, Dewdrop 29 guineas, Wardle; 42, Damson Jelly 30½ guineas, Gardener; 43, Brunette 27 guineas, Quicke; 44, Nectarine Flower 31 guineas, Buckle; 45, Musical 2nd 31 guineas, Holder; 46, Ladylike 62 guineas, Grey; 47, Icy 29 guineas, Quicke; 48, Damson Cream 28 guineas, Grey; 49, Neatness 36 guineas, Nesham; 50, Annette 29 guineas, Quicke; 51, Lilywhite 35 guineas, J. Arkell. Bulls: lot 52, Tichborne 23 guineas, W. Talbot; 53, Lord-Lieutenant 25 guineas, R. Attenborough; 54, Lord Wemyss 27 guineas, Richardson; 55, Belmont 23 guineas, Thomson; 56, North Star 41 guineas, G. Witcombe; 57, Bismarck 22 guineas, Thomson; 58, Norval 21 guineas, Cotes; 59, Lord Lowe 25 guineas, Neild; 60, Welcome Duke 40 guineas, Harbage; 61, Napoleon 30 guineas, Lovibond; 62, Noble Butterfly 60 guineas, Capt. Cookson. Total sale, £2,187 3s.

EXPORTED SHORTHORNS.

Early in the past month the Winefred left London for Brisbane, having on board three young Shorthorn bulls and five heifers, the property of Messrs. McConnell, Queensland. The heifers had been selected from the herds of the Marquis of Exeter and Messrs. Atkinson, and were chiefly yearlings. The bulls were of the same age and of good substance, quality, and high blood, having been purchased from the herd of Mr. Hugh Aylmer, Norfolk. The La Hogue, for Sydney, had on board two very fine young animals, also of the Shorthorn breed. One was the well-known prize heifer Victoria Windsonia, a red two-year-old, bred by Lady Pigot. This heifer, after winning at several of the principal shows, had been sent for service to Warlab, where she had been put to Lord Blithe, own brother to Mr. Booth's celebrated prize cow Lady Fragrant. This heifer was purchased by Mr. E. King, Car. The other was a cow, Modesty, bred by Mr. Searson, from the Messrs. Dudding's stock, and in calf to Mr. Torr's Bridport, a son of his well-known cow Blink Bonny. Mr. Ridge, of Windsor, New South Wales, has also made several purchases from first-class herds. Across the Atlantic our American cousins seem to adopt the English method in disposing of their surplus Shorthorn stock by auction. Several imported animals are announced for sale at Col. King's farm near Minneapolis, in the far north-west; whilst some leading Kentuckian breeders advertise large portions of their herds for public sale, and others their entire stocks. Mr. Gibson, it is rumoured, has landed in this country with some pure-bred animals for a spirited breeder in the Midland Counties, and Mr. M. H. Cochrane of Montreal, so renowned for his extraordinary purchases here for importation to Canada, has recently bought up the whole of Messrs. Walcott and Campbell's importations of pure Booth cattle which were made a few years ago from Mr. T. C. Booth's herd at Warlab.

SALE OF SHOW STOCK AT DORCHESTER.—Some of the stock exhibited was disposed of by auction by Mr. T.

Ensor. Two Devon bulls belonging to Mr. Wm. Smith, of Higher Hooper, Exeter, Pennsylvania and Earl of Devon, realised 35 guineas each; Mr. C. Hambro's Agneta, a Devon cow in calf, eight years old, 30 guineas; another of Mr. Hambro's, a yearling, 19 guineas; and another yearling heifer 23 guineas. Only one Guernsey was sold, a fawn and white cow, Lady Jane, for 40 guineas.

THE GAME LAWS COMMITTEE.

(Continued from page 73.)

The conclusion of Mr. Sewell Read's examination has been deferred in order to suit his convenience.

At the meeting on June 18, Mr. J. W. Barclay, merchant in Aberdeen, and farmer at Auchlossan, Lumphannan, was examined. In reply to questions put by Mr. M'COMBIE, he said he had been a member of the Aberdeen Town Council, and was honorary secretary of the Aberdeenshire Rinderpest Association, which was the originator of the stamping-out process, which Parliament afterwards adopted. His farm consisted of about 400 acres of arable land. Of these, he had reclaimed about 230 acres from the Loch of Auchlossan. This loch he drained, receiving for the drainage a lease from the proprietor of twenty years free, and of five years thereafter at a moderate rent. The proprietor reserved the game of every kind, and the fish as well, with the sole liberty to fish, shoot, and hunt over the land at all times. He was to get no compensation at the end of his lease for drainage done.

By Mr. HUNT.—His rent after the first twenty years free was to be £100 a year for five years—that was twenty-five years in all—but, on account of the difficulty of draining the loch, the proprietor extended the lease two years during the operation. The drainage had been exceedingly expensive, on account of the nature of the soil; and in consequence of that the profitable length of the lease had been reduced by six or seven years.

By Mr. M'COMBIE.—He did not believe that his offer to reclaim the Loch of Auchlossan would have been accepted if the game had not been reserved to the landlord. The game on Auchlossan was let to strangers at £120 a year, which included the value of the game on the rest of the estate. The whole estate consisted of about 4,000 acres, and he farmed about a tenth of it. A few years ago the game was let for £30. The game on the farm included hares, partridges, black game, and grouse.

By Mr. HUNT.—There are no rabbits on the estate. There were a few years ago, but they were greatly complained of by the tenants. He himself did not suffer to any material extent from game, but when the game was more strictly preserved others suffered. At some seasons the grouse came down upon his corn, but he did not reckon they did much damage. Since he became a farmer he had taken an active part in agricultural questions, and had attended many public meetings held in Aberdeenshire on the subject of the Game-laws. At these meetings resolutions were passed condemnatory of the existing laws. One resolution stated that hares and rabbits ought to be excluded from the operation of the Game-laws, that their preservation was not compatible with good farming, and that all compacts for their preservation ought to be declared illegal. Other meetings had passed resolutions to the same effect, declaring that contracts such as those referred to should be declared illegal, as being contrary to the public good. Both political parties had been represented at these meetings. The tenants of a large proprietor in Aberdeenshire had lately sent him a petition asking him to lessen the quantity of game on his estate. This proprietor almost invariably refused to grant leases. He had about forty tenants. On another estate in the same county there had been nothing to complain of up till 1863, when the present proprietor came into occupation, and straightway began the preservation of game. The crops of the tenants were very seriously damaged; and in 1866 a tenant who claimed £29 for injuries done received £26. His extra-judicial expenses, however, amounted to about £10. On another estate in Aberdeenshire a petition had been addressed to the proprietor, in which it was pointed out that unless some

reduction was made in the numbers of game the occupation of farms would become impossible. As it was, a stop to all permanent improvements had effectually been made. No reply had been given to the first petition he had instanced, because the landlord held that in some south country estates there was more game than on his. He knew of more than one case in which a tenant had been obliged to emigrate to America because his farm could not be occupied profitably, so great was the quantity of game. He had given these instances to show the existing state of things, and had mentioned the petitions as showing the opinion of the Aberdeenshire farmers—an opinion which might be further ascertained from the resolution of the Aberdeenshire Game Conference.

In reply to Mr. M'COMBIE,

Mr. Barclay gave instances of game clauses. In one case the landlord reserved everything on the estate in the shape of game and fish, including hares and rabbits, with the sole right to shoot over the land; and, notwithstanding any alteration made in the Game-laws, the tenant was bound not merely not to destroy the game but to do all he could to preserve it. He could make no claim for damages done by game. In another case the landlord made it binding on the tenant to keep off all poachers and suspicious persons, and he was further bound not to keep a dog. Since 1850 the conditions of lease on this particular estate had been made more binding. The tenants were prohibited from keeping on their farms any person likely to become a burden on the Poor-law funds (laughter). This was in addition to the game clauses; and to crown the whole, a year's rent in arrear brought about a declaration of the tenant's bankruptcy. There was, so far as he knew, only one estate in Aberdeenshire—namely, that belonging to Gordon's Hospital—in which the game was not reserved to the proprietor. There were twenty-nine farms on which the tenants had the right to kill hares and rabbits. In Aberdeenshire little land was set apart by the proprietors for the maintenance of game. The consequence was that game was kept by the tenants, so that in fact the landlord received two rents out of the farms. The tenants were, as a rule, exceedingly unwilling to make game complaints against their landlords. There were several reasons for this. The landlord had the tenant at all times very much within his power, and the farmer knew very well that if he made any complaint not only would his lease not be renewed, but he would not obtain a farm from any other game-preserving landlord. It was quite impossible to do justice to the tenant by any attempt to give money for damages done by game. In the first place, it was extremely difficult to find out the direct damages, and as for the indirect damages caused by the "keep" of hares and rabbits during all the year these could not be ascertained at all. No scheme of reform, therefore, which was based on compensation for damages could be satisfactory, and such a scheme had been universally scouted by all the farmers he knew. The effect of the state of things in Aberdeenshire was that the farms were not so well cultivated as in any other circumstances they would be. The poacher was not looked upon in Aberdeenshire as altogether a bad fellow.

Mr. M'COMBIE: Is he looked upon as a thief?—No; but he is looked upon as a dangerous subject (laughter).

WITNESS continued: My opinion is that the present Game-laws might be abolished, and a simple Game-law passed instead.

Some discussion here took place as to evidence concerning the deer forests on Deeside.

Mr. BARCLAY said that the Mar estates of the Earl of Fife had been almost converted into deer forests. The only farm of any extent on the estate was held by the factor, Mr. Clark.

The CHAIRMAN: Do you know that personally to be a fact?—Yes, I do.

Mr. M'COMBIE: How many acres of deer forest may there be on the Fife estate?

WITNESS: About 100,000 acres I should say. I should think that 25,000 sheep might be fed in the Earl of Fife's glens.

Mr. M'COMBIE: I remember when my father kept 800 cattle and 500 sheep on the Geldie, which used to be a grazing glen on the Fife estates.

Mr. BARCLAY continued: In Glen Tannes, near Aboyne,

which was on the estate of the Marquis of Huntly, there were about thirty farms fewer than there were thirty years ago. Both in Braemar and Glen Tannes the heather was killing the grass, and the opens were becoming less able to support cattle and sheep than they used to be.

In reply to Mr. M'COMBIE,

Mr. BARCLAY said that he would object to any alteration in the ordinary Trespass Law.

Mr. M'COMBIE: Do you think that these gentry from England who take grouse shootings in the Highlands do any good to the country? We hear a great deal about the good they do, you know.

WITNESS: I don't think that they do very much material good to the country. They get most of their provisions from a distance. The good they do is done to the proprietors more than to the country.

Mr. CAMERON, of Lochiel, cross-examined Mr. Barclay at some length, with the object of showing that everybody in the Highlands benefit from the gentlemen who shoot grouse; but Mr. BARCLAY held to his opinion that the proprietors and not the people of the country chiefly benefited. He denied that the farmer benefited. He would substitute for the existing Game-law a simple Trespass Act, which would protect grouse and game, and give the inalienable right in hares and rabbits to the farmer. In one-half of Aberdeenshire high farming was impossible, because of the great preservation of game. In Aberdeenshire about half a million of money was expended in artificial manure. That, however, was no great figure for a county like Aberdeen.

Mr. CAMERON: Have you any experience in sheep farming?

Mr. BARCLAY: No; there are very few sheep farmers in lower Aberdeenshire.

To Mr. SHERLOCK.—Mr. Barclay said that when his lease in Auchlossan came to an end he would not have reaped so much from the money invested in it as if it had been invested in business. The farmers in Aberdeenshire, he was quite satisfied, made less out of farming than if their money were invested in 3 per Cents. The value of farms in Aberdeenshire had not decreased, but they would have been higher had it not been for the Game-laws and the excessive preservation of game.

By Mr. M'LAGAN.—He was somewhat of opinion that the arbitrary and despotic clauses in the leases were practically disregarded. For instance, though some farmers were bound to inform against poachers, the were like a certain admiral, who did not "see" the signal to retreat. They did not see the poacher, and therefore did not inform against him. What he understood by the absolute and unrestricted right to kill hares and rabbits was not that a farmer should give over that right to the proprietor for a consideration, but that the farmer should have the right in such a way that he could neither divest himself of nor be divested of it.

By Lord ELCHO.—The farmers of Aberdeenshire and the Chamber of Agriculture in Scotland want that when a new Game-law comes into operation it should take immediate effect, superseding previous agreements and leases.

Mr. M'LAGAN: If a Game Act were passed which the tenant and the poacher both tried to evade, would it not have a bad effect on the morals of the country?

Mr. BARCLAY: An Act of Parliament has nothing to do with the morals of the country. If it be just in itself it cannot injuriously affect the country's morals. The present laws are not just, and do injure the country's morals. Witness further said that he would not take rabbits and hares out of the game list. What he wanted in place of the present laws was a simple Game Trespass Act, something like the Wild Fowl Act passed the other day, which would increase the penalties for every new offence. He would rather give the control of hares and rabbits to the farmers themselves than take them out of the game list and give them to all the idle vagrants in the country and in the villages round about.

Mr. HUNT: Do you wish to see the freedom of contract interfered with in relation to your business in Aberdeen?

WITNESS: I do not.

Mr. HUNT: Then on what principle would you interfere with the freedom of contract in relation to farmers?

WITNESS: Because there is an exceedingly great difference between the land and the produce of it.

At this point the examination of Mr. Barclay was adjourned.

At a meeting of the York Chamber of Agriculture, on June 20, Mr. WARE, the chairman said, at their last meeting they had a very excellent lecture delivered to them on the Game-laws, by Mr. Peacock, of this city, and that gentleman was deputed by the Chamber to represent them before the Select Committee of the House of Commons sitting to receive information upon the Game-laws. Upon that appointment being made, Mr. Grayston, the secretary of the Chamber, wrote to Mr. J. W. Hunt, the chairman of the Select Committee intimating that Mr. Peacock was ready to give evidence before them. In reply, Mr. Hunt sent a communication, intimating that there was a desire on the part of the Select Committee not to multiply unnecessarily the number of witnesses, as they wished to come to some conclusion on the subject during the present Session of Parliament, but that Mr. Grayston's letter would be laid before the committee. He (the chairman) happened to be called suddenly up to London, to attend one of the law courts at Westminster, and singularly enough one of the first persons he met with was Mr. Peacock, who told him he had received an order to attend before the Select Committee to give evidence upon the game question. He went with Mr. Peacock into the committee-room, and from what he saw and heard he could assure the Chamber it was no trifling matter to appear before seventeen members of Parliament, the number of the committee, and to be questioned by them all round. Mr. Peacock was not called that day, but he gave his evidence on the following Friday, and was for three hours under examination, he being asked several questions, first by one and then by another. They might be sure that during this long time Mr. Peacock would give a great variety of information upon the subject. He was glad that the Chamber was on the occasion so ably represented by Mr. Peacock. It struck him that there was a certain degree of antagonism amongst the members of the Select Committee, some fighting one way and some another. From all he could see, and from his knowledge of the subject generally, he was of opinion that Parliament would not be enabled satisfactorily to legislate upon the game question, as it simply resolved itself into one to be settled between the landlord and the tenant. The present agitation, and the appointment of a select committee, would nevertheless be productive of much good, as it would tend to prove to gentlemen, who were great preservers of ground game, that they were in error, and would be induced he hoped to discontinue the practice, and not go in so strong as they had hitherto done. He could mention a fact that had come to his knowledge. One nobleman, whom he would not name, an ardent game preserver, had this spring sold 4,000 pheasants' eggs to a game dealer in York, besides additional eggs which he had disposed of at other places.

Mr. JOLLY (York) said he considered Mr. Peacock had conceded far too much when before the committee. When asked by M. Muntz respecting hares, he said that tenants should have the right to course them and to kill rabbits. Now they all knew that it was utterly impossible to keep down hares by coursing only; and as to rabbits, if the tenants were only allowed to shoot them, the same result would be experienced. Hares to be coursed and rabbits to be shot by the tenants read very well on paper, but he was of opinion unless they could have the privilege of killing both in the best way they could it would be utterly impossible for tenants to farm well and realise a profit under certain situations.

The CHAIRMAN considered that it was premature to criticise Mr. Peacock's evidence, inasmuch as they had only as yet seen an abstract, and that a short one. As Mr. Peacock was under examination for three hours his evidence must necessarily have been long, and it was impossible to tell the full bearing of it in the summary which appeared. It was scarcely fair at present to speak adversely of Mr. Peacock's testimony, but it might form the subject of comment when they obtained the full report as it would appear in the blue book. They knew pretty well what Mr. Peacock's opinions were, and he believed they were concurred in by farmers generally.

HIGHLAND AND AGRICULTURAL SOCIETY OF SCOTLAND.

At the general meeting, in the hall, George IV. Bridge, Mr. Binnie, Seton Mains, in the chair, 129 new members were elected.

Mr. DUNDAS (Ariston) moved "That the death of Mr. Dickson having been communicated to the Highland and Agricultural Society of Scotland, they resolved to record in the minutes their deep regret for his loss, and the sense of the obligations which the Society owed to him as a director. That the meeting direct that a copy of this resolution be transmitted to Mrs. Dickson, with their respectful condolence with her and her family under so painful a bereavement." The motion was unanimously agreed to.

For the Kelso Show the entries are as follows:

	1872.	1863.
Cattle	280	245
Horses	200	127
Sheep	550	532
Swine	60	49
Poultry	320	261
Implements	1600	1100

Dr. ANDERSON said he had to make a verbal report in regard to the chemical department—a report which on the present occasion must be very much of the ordinary character. They had always during the first six months of the year the largest number of analyses to make for members of the Society; and during the last six months the number had been no fewer than 272, including examples of every kind of analysis, with the details of which it would be unnecessary to occupy the time of the meeting. He might state that the results had been, on the whole, satisfactory, and he thought that the amount of deliberate and flagrant adulteration had this year been under an average. No doubt there had been many cases in which manures had been offered for sale which had fallen short of the guarantee—cases in which there was no deliberate intention to defraud, but which had their origin in the keen competition which existed in the manure trade, and which induced the manufacturers to put their best foot foremost. There were several cases which were not without interest. One case particularly merited notice. A well-known manure manufacturer sent him for analysis a sample of guano, which proved to be of very inferior quality, and he accordingly reported to that effect. The manufacturer afterwards informed him that the result was exactly what he had anticipated. The facts of the case were these: This manure manufacturer had been very much annoyed by customers coming to his office and telling him that they were offered elsewhere a guano in a drier and better condition for £1 per ton less. That occurred so frequently that he asked for a sample, which was the sample he (Dr. Anderson) analysed, and it was found to be worth between £2 and £3 a ton less in value than the article which he was selling at 20s. higher. He asked the name of the seller, but it was declined. Other cases of a similar kind had occurred. It was found that great disinclination existed as to communicating to him the names of dealers in these cases so that he was unable to put the farmers as thoroughly off their guard as he would like to do. Several matters had occupied the attention of the committee since the last general meeting. At that meeting he was anxious that he should have been permitted to make a provisional report at the present time on the subject of the proposed establishment of an experimental station. The committee were, however, of opinion that their plans were not sufficiently matured, and that too much difference of opinion existed to render it advisable to proceed. He therefore simply mentioned the matter, so that the Society might see that they were not neglecting the subject. Some time ago attention was drawn to the fact that very great difference was alleged to exist as to the method in which analyses were stated by himself and the chemists of the English and Irish societies. When the matter was brought up he expressed himself as being of an opposite opinion, and that he thought the analyses were identical. He had since inquired into the matter, and found that the analyses were substantially identical, although certain verbal differences existed which appeared to create confusion amongst farmers. He had therefore been endeavouring to arrive at a regular

system of stating the analyses, and he hoped he would succeed in carrying out this—an arrangement which seemed to be desired by farmers generally. Several pieces of work were going on in the laboratory; amongst others an investigation into scab in potatoes, on which he hoped soon to be able to report. The Society might feel assured that no delay would occur in communicating the results as soon as the investigations were satisfactorily finished.

Mr. GEORGE HARVEY (Whittingham Mains) said that after the last annual meeting in January considerable dissatisfaction was felt with him, in anonymous letters appearing in a well-known journal, stating that since he became a director he was checkmated, and that he durst not rise to speak on this subject. In fact, it was said that the lion and the lamb had lain down together. The real truth was that his reason for silence on that occasion was simply that the directors had announced some time previously that fraudulent manure-dealers were to be exposed under the auspices of the Society. Since that time he believed that no very flagrant case had occurred. At the same time he was not forgetting the subject, and he took as much interest in it as ever. He held it was unjust, unfair, and ungenerous to be attacked by such scurrility of writing in an anonymous way.

Professor BALFOUR reported that the examinations for the Society's agricultural certificate and diploma took place on the 26th and 27th March, and that at a meeting of the Council on Education, held on the 29th March, diplomas were conferred on Mr. Colville Browne, Long Melford, Suffolk; Mr. A. H. Ashdown, Uppington, Wellington, Salop; and Mr. Adam Ogilvy Torry, St. Ann's, Coupar-Angus, who obtained the certificate last year. A certificate was granted to Mr. Forbes Burn, Hardacres, Coldstream, who was entitled to present himself for further examination, in terms of the regulations, for the diploma. Professor Balfour also mentioned that the prizes given by the Society to the class of agriculture were this year awarded to—1, Robert Gray Murray, Lanarkshire; 2, Matthew C. Thorburn, Dumfriesshire.

The following new bye-law was proposed for adoption: "That each successful candidate for the Society's agricultural diploma shall thereby become eligible to be elected a free life member of the Society." Also the following addition to bye-law No. 3: "Holders of the Society's agricultural diploma shall be declared duly elected if one-half of the members present at the general meeting at which they are proposed shall have voted for them."

Mr. DAVID MILNE HOME moved the adoption of the report and of the new bye-laws. He had great pleasure in doing so, and he thought that they would see that the gentlemen who had obtained the diploma were men who well deserved all the honour bestowed on them. Those who succeeded in getting the diploma had to pass an examination on subjects of considerable difficulty. They must attain the age of twenty-one, possess a thorough knowledge of the practice and theory of agriculture, of mechanics and mensuration, of the physiology and treatment of domestic animals, and also a knowledge of chemistry and botany. They must undergo a great amount of study to fit them for obtaining the diploma, and the directors thought that these gentlemen were well entitled to some further mark of distinction. They thought that, following the example set by the Royal English Society, they should bestow on them the privilege of becoming life members without paying £10 or £11.

Major HUNTER, of Thurston, seconded the motion, which was agreed to.

Professor BALFOUR reported that the examinations for the Society's certificates in forestry took place on the 26th and 27th March, when a second-class certificate was conferred on Mr. Peter Loney, Marchmont, Dunse.

Captain TOD, of Howden, reported the examinations for the Society's veterinary certificate on the 15th, 16th, and 17th of April. The general impression on the minds of those who were present at the examination was that the students made a very creditable appearance. In presenting the medals to the successful competitors, he made a few remarks about the short period during which the students had for study. The sessions began about November and closed about the middle of April—in all, barely six months. They were obliged to attend two sessions, or about twelve months, and, during that time, one was expected to become a veterinary surgeon. He proposed

that the session ought to be lengthened, or, if not lengthened, that instead of two sessions there should be three; and he thought that that should be recommended by the Society to the trustees of the College. It seemed a very short period for veterinary surgeons that they should be only twelve months under their professors. Stock was now of immensely more value than in former times, and if the animals died the loss sustained was very great. At present the system adopted was, to a considerable extent, by coaching and cramming; and he was of opinion that if the students had a longer course of instruction it would be very beneficial.

The SECRETARY said that Captain Tod spoke of recommending to the trustees the plan proposed; but the Society had it in their own power. They held the examinations and issued the diploma. The trustees had nothing to do with the diploma.

Captain TOD said he was glad to hear that. Professor Williams quite agreed with what he had said as to the short time for study, and he had stated that nothing would give him greater pleasure than that the course of instruction should be lengthened by having three sessions. And the examiners thought that that was the proper thing.

The CHAIRMAN said he thought that two short sessions of six months each was quite ridiculous and absurd. No young man ought to think of going out as a proper veterinary-surgeon unless he had had three sessions.

Professor BALFOUR, on the part of the examiners, said he thought that three sessions formed a brief enough period for study.

On the suggestion of the CHAIRMAN, the matter was remitted to the directors.

The SECRETARY reported that the following premiums had been awarded for reports lodged in competition since the general meeting in January: Twenty sovereigns to Thomas Ferguson, Kinnochtry, Coupar-Angus, for a report on potatoes grown with potash manure; fifteen sovereigns to J. T. Scott Paterson, Plean Farm, Bannockburn, for a report on the best modes of housing and fattening cattle; the gold medal or ten sovereigns to George Young Wall, jun., M.R.C.A., land-agent, New Exchequer Buildings, Durham, for a report on the comparative productiveness of turnips.

The report was adopted.

Mr. CAMPBELL SWINTON said it would be in the recollection of the meeting that Baroness Burdett Courts had some time since offered, through the Society, the sum of £50 for essays on the Duty of Humanity to the Lower Animals, and the Best Means of Inculcating it into Elementary Schools. The prizes were extensively advertised by the Society. Sixty-four essays were lodged in competition, and a committee was appointed to read and report on their merits. The duty of the committee was a very laborious one, and after considerable trouble the prizes were recently awarded to—1, W. S. Gall, 135, Moore-street, Glasgow, £20; 2, W. A. Macdonald, 1, Monro Place, Canon-mills, Edinburgh, £10; 3, A. B. Dickie, Murdoch's School, Springburn, Glasgow, £5; 4, Miss Isabella Copland, 17, South Mount-street, Aberdeen, £5; 5, Miss Elizabeth Harrower, 12, Picardy Place, Edinburgh, £5; 6, Miss Lizzie Daws, 14, Essex-street, Norwich, £5. After communicating with Baroness Burdett Courts on the subject of publishing the essays, the directors had resolved to print, at the expense of the Society, nearly the whole of the first prize-essay, along with extracts from the other five, to issue gratis copies among the schoolmasters in Scotland, and to throw off an additional supply for sale at a cheap rate to the public. He had no doubt that the meeting would approve of the mode in which the committee wished to show the Society's appreciation of the liberality of the Baroness, who was always foremost in every good work.

SALE OF THE ROYAL YEARLINGS.—At the recent sale by Messrs. Tattersall at Hampton Court the weather was unfavourable and the attendance bad. As a lot, the yearlings were very moderate, but they were brought to the hammer in excellent condition. The twenty-eight lots realised 4,645 guineas, or an average of 166 guineas within a fraction; but competition, on the whole was tame in the extreme. In only two instances was 500 reached or exceeded. These prices of course compare very unfavourably with some previous sales.

ROYAL AGRICULTURAL BENEVOLENT INSTITUTION.

On the first Tuesday in June the annual meeting of the members of the Bath and West of England Society was held at Dorchester, and on the first Wednesday in June the annual dinner of the subscribers to the Royal Agricultural Benevolent Institution at Willis' Rooms, St. James'. These two Societies may be assumed fairly enough to represent the sun and the shade of agriculture. The visitor to the West of England show is a pushing thriving man, in high spirits and good health, winning a prize, may be, with a cow or a sheep, or a ready buyer, whatever Garrett and Sons may say to the contrary, of a prize implement. The prize winner, on the contrary, or the anxious customer of the Benevolent Institution, is a broken down faint-hearted man, whose energies have evaporated, and who from bitter experience has lost all confidence in his own exertions. For the Council of the West of England Society the exhibitor fills up an entry form, giving the pedigree, and hence the value of his stock, as there is a prosperous ring about the very tone of such a paper. For the Council of the Benevolent Institution the applicant fills up a form, which is mainly a story of broken fortunes, of a large family and of bad seasons, of unavoidable calamities, and a destitute old age.

It is satisfactory to see that the Royal Agricultural Benevolent Institution is a great and still growing success; as Mr. Sewell Read said, and said well, at the dinner, it will remain as a monument to its founder long after "his agricultural romances and extravaganza" have been forgotten. And the success of the Institution rests of course upon the fact of its having been thoroughly worked. Men who would never read a circular, and who have something of an instinctive horror of "a collector," will give their guineas readily enough at the instance of a friend or neighbour. In a word, the local secretaries have "made" the Royal Agricultural Benevolent Institution, as a direct proof of this is afforded in the fact that in some counties the subscriptions are numerous and in others scarce. Wherever there is a Naish, a Long, a Cantrell, or a Clayden, there the list gradually lengthens, as the zeal of such men rather increases than abates. When the Volunteer movement was first tried it was regarded by many as a mere "spurt," which would quickly die out, and it is no question a matter of some surprise that our amateur army is now growing into old soldiers, whose hearts in the cause are as green as ever. So it has been with the volunteers of the Agricultural Benevolent Institution, whose chief duty would appear to be the collection of funds for this object, and in the next degree to attend to any business which they may happen to have of their own. "When I visit Mr. Long," said one of the speakers at the recent dinner, "I go and get some capital bird shooting, and he goes about getting subscriptions for this Society."

A conscientious chairman, however, like Lord Vernon, is not satisfied to see the Society rest content with the great good it has already achieved, and his speech fairly

bristles with suggestions. Of course more local agencies should be looked up, while the very dinner might be turned to better account: it should "take place when the Smithfield Club Show has brought together a large number of agriculturists from all parts of England," or "be held in connection with the summer show of the Royal Agricultural Society;" thus bringing the sun and shade of the farmer's life under one sky. But however well at the first glance or to the mere outsider these views may look, they will scarcely stand the proof of any closer examination. As a past-president of the Royal Agricultural Society Lord Vernon must be aware that the national body after repeated experiments, has given up its own dinner during the show week. The Farmers' Club, also, once tried a dinner during the July meeting, and never but once, as we believe, the Chamber of Agriculture has already abandoned this part of its programme. Again, the members' dinner of the Smithfield Club has at last utterly fallen through, as, in fact, the only festival of the kind which is still a success in show time is the annual dinner of the Farmers' Club. People are too much engaged in other ways to bind themselves down to engagements of this kind, and on the force of experience it would threaten to be a mistake to change the time or place of the Benevolent dinner to July in the country or to December in town. Nevertheless, there is no reason why the character of this meeting might not be improved. On the recent occasion of its celebration the room had thinned terribly before the toast-list had come to a close — of itself always an unwholesome sign, as one cause for this should be evident enough. Instead of endeavouring to throw some variety into the proceedings, and draw some fresh blood, the same speakers are year by year put up for the same speeches. Thus, Mr. Mechi himself takes the Societies of Agriculture, Mr. Cantrell answers for the Council, Mr. Scott represents the Army and Navy, and so forth. On the face of it such an arrangement must grow wearisome, however able the chairman, or however versatile the abilities of those who follow him. Mr. Disraeli or Mr. Gladstone would gradually break down under such a system, and even Mr. Mechi himself cannot always be inculcating the value of the Society's *Journal*, Mr. Cantrell continually speaking to the cost in time and money incurred by the country directors, or Mr. Scott for ever being expatiating on "the double capacity" in which he appears, as a volunteer on half-pay and as an original subscriber to the Royal Agricultural Benevolent Institution. These, no doubt, are all very admirable "points" to take up; but possibly somebody else might take up something else rather more novel or strange. We are induced to say thus much because we feel it would be a great mistake if the Benevolent dinner were suffered to fall through, as we question whether the income of the Institution would not suffer from its discontinuance. Moreover, it affords almost the only opportunity for paying a well-merited compliment to gentlemen like the local secretaries, who have worked so hard during the year, as a charity without a dinner loses its very best advertisement.

Lord Vernon's further suggestion involves a matter for very serious consideration, if it does not open up an altogether new phase in the direction and distribution of such funds. Many a man, says Lord Vernon, has been saved by the loan of a ten-pound note, "often of more good than a £20 pension for life." This is true enough; but the difficulty in dealing with such applications would be very great, as we doubt whether the ultimate effect of such a system would be quite healthy. There are too many people in this world only too ready to put themselves in the way of ten or twenty pound notes, when they know where these are to be obtained.

The annual general meeting was held on Wednesday, June 19, Willis' Rooms, to receive the Report of the Council for the year ended on the 31st December, 1871, and for the election of officers and pensioners, Mr. Meech in the chair.

Messrs. Baldwin, Beddall, Nicoll, and Shaw, retiring members of the Council, were re-elected; Messrs. H. Cheffins and F. Sherborn were re-elected Auditors, and Mr. D. Long was added to their number.

The thanks of the meeting were voted to Lord Vernon, for presiding at the anniversary dinner of the Institution, to the Honorary Local Secretaries, and to the Auditors.

The SECRETARY read the Annual Report as follows: In presenting their twelfth annual report, the Council refer with confidence to the working of the Institution during the past year, as indicative of its continued prosperity, and the hope thus inspired of its increasing its sphere of usefulness. The Council, however, regret to observe that, from the unprecedented number of candidates for election, there still appears to exist a large amount of distress among the farming classes, calling for renewed exertions on the part of all those interested in the objects and welfare of the Institution. By reference to the balance-sheet, it will be seen that there is a still further increase of £500 in the receipts subsequent to the issue of the last Report, at which sum the average addition to the Society's funds for some years past may be estimated. It will be remembered that, in deference to the wishes expressed by the subscribers, an unusually large number of candidates were last year elected, which absorbed the greater part of the surplus income. That year being an exceptional one, the reduction in the numbers now to be added to the list of pensioners will not be a matter of surprise, especially when it is considered that the average of former years is still maintained. It only remains for the Council to notice the kind acceptance by the Marquis of Huntly of the office of chairman of their Executive Board, thus supplying the vacancy created by Earl Spencer's retirement.

The Report was adopted, and the Council proceeded to the election of Pensioners. The following is the list of the successful candidates:

MALE PENSIONERS AT £26 PER ANNUM EACH.

	Votes		Votes
Downey, William	270	Fidler, George	213
Coles, Thomas	238	Hailes, James Thomas	209
Garrett, Richard	233	Moore, Henry	200
Wilmott, Henry	218	Hatch, John	193

MARRIED PENSIONERS AT £40 PER ANNUM EACH.

Bird, Samuel and Jane	375	Giddings, William and Elizabeth	326
Morris, Mark and Emma	341	Rogers, Wm. and Eliza	309
Palin, Wm. and Mary E.	339		

FEMALE PENSIONERS AT £20 PER ANNUM EACH.

Mardell, Mary	439	Barnwell, Elizabeth	241
Cunningham, Jane Mason	308	Higgs, Ann	241
Cox, Ann	296	Long, Susan	234
French, Mary	274	Scar, Mary Ann	234
Hickes, Lydia	266	Pratchett, Caroline	226
Pickrell, Catherine	259	Young, Ann	218
Rippin, Mary Ann	255	Gregory, Ellen	213
Ivens, Jane Pentelow	254	Spencer, Emma	204

THE FOLLOWING ORPHAN CHILDREN WERE ALSO ADMITTED:

Frederick Plimley.	William Coles.
Thos. Martin Whatoff.	Fannie Higgins.
Geo. Rhodes Withersden.	Mary Elizabeth Knight.

VOTES POLLED BY THE UNSUCCESSFUL CANDIDATES:

Male Candidates.	Votes.	Female Candidates.	Votes.
Andrews, John	63	Greenbury, Ann Anicoe	1
Lidstone, George	30	Perry, Mary	13
Flint, John	159	Pitt, Mary	165
Miller, William	142	Aburrow, Kezia	34
Brett, John Grave	176	Tamlyn, Mary	41
Christian, John	101	Evans, Ann	2
Jones, David	13	Westwood, Beatrice	79
Brewer, John	43	Knowles, Hester	178
Chambers, William	191	Charlton, Margaret	201
Watts, Robert Bell	163	Melton, Matilda	52
Bowles, Samuel	126	Linkhorn, Frances	31
White, Joseph Wright	14	Matthews, Sarah	42
Coombes, James	62	Stamford, Susannah	71
Fox, Richard	54	Pratt, Mary	52
Chester, William	165	Dennis, Sophia	25
Cutler, Joseph	41	Lavington, Jane	28
Sargent, W. M.	6	Bridge, Sarah	135
Wheeler, James	94	Sedwell, Elizabeth	112
Sabin, Isham	31	Barnard, Mary	118
Keasey, James	29	Lee, Rebecca	17
Kingham, James	7	Hooke, Mary	116
Goodchild, Josiah	129	Ord, Margaret	8
Ham, Wm. Beale	3	Whipps, Amelia	72
Calcraft, William	25	Scovell, Mary	34
Measures, Lemuel	11	Norman, Hannah	91
Dimmock, William	5	Collingridge, Helen	87
Bullock, Thomas D.	29	Brown, Ann	12
Jones, Jesse	67	Ellis, Elizabeth	53
Langley, Thomas	4	Price, Mary G.	108
Kellaway, T. Smith	115	Willsher, Mary	105
Brown, Thomas	4	Francis, Jane	141
Colman, John	6	Pack, Mary	199
Married Candidates.			
Bull, William		Bartlett, Mary Ann	8
Bull, Jane	74	Bingley, Hephzibah	20
Mason, James		Tibbett, Elizabeth	5
Mason, Susannah	259	Dove, Mary Ann	79
Mills, James		Parr, Jane	27
Mills, Sarah	151	Whitehead, Eliza	66
Priest, John		Alexander, Mary	42
Priest, Susanna	176	Belton, Elizabeth	7
Pearse, Thomas		Gleed, Elizabeth	141
Pearse, Sophia	19	Tucker, Eliza	—
Presswood, John	23	Blakeley, Mary Ann	43
Presswood, Susannah		Browning, Charlotte	17
Frost, John	37	Cryer, Sarah	9
Frost, Elizabeth		Pearmain, Louisa	88
Barnard, William	156	Fincher, Elizabeth	74
Barnard, Mary		Guyatt, Martha	27
Akerman, John	182	Hawkins, Harriett	168
Akerman Ann		Leaver, Mary	101
Turner, John Sippens	304	Brittain, Elizabeth	1
Turner, Mary Ann		Harradine, Susan	42
Austin, Thomas	75	Campion, Sarah	42
Austin, Sarah		Jones Ann	87
Beck, Thomas	47	Parkinson, Ellen	164
Beck, Louisa		Soffe, Martha	90
Eagle, Charles	122	Chattaway, Sarah	91
Eagle, Susannah		Hance, Margaret Maria	78
Payne, Wm. George	62	Holly, Charlotte E.	70
Payne, Mary Ann		Mawer, Cassandra	190
Tilley, John	18	Yalden, Mary Ann	52
Tilley, Betsey		Clark, Elizabeth	84
Lavington, William	37	Jull, Sophia	59
Lavington, Mary		Welsh, Frances	—
Taylor Richard	100	Courtney, Emma	54
Taylor, Martha		Battin, Eliza	17
Whaites, Charles Henry	233	Brock, Phoebe	37
Whaites, Eliza		Cox, Harriet	104
Bucksey, John	—	Mills, Mary	11
Bucksey, Jane		Peake, Susannah	9
Inchley, William	31	Smith, Eliza	14
Inchley, Elizabeth		Allen, Ann	38
Parry, Joseph	83	Jackson, Sarah	88
Parry, Mary		Sussens, Elizabeth	84
Polley, William	82	Wincup, Priscilla E.	14
Polley, Mary Ann		Lenny, Elizabeth	24
Female Candidates.			
Hyne, Caroline	51	Farncombe, Charlotte	75
Watts, Mary	35	Polley, Martha	5
		Jenner, Ellen	85

THE MAIDSTONE FARMERS' CLUB.

SUFFOLK FARMING.

At the May meeting, Mr. T. Bridgland, jun., in the chair, a lecture was delivered by Mr. R. L. Everett, of Rushmere, Ipswich, on Suffolk Farming.

The CHAIRMAN, in introducing Mr. Everett, announced that Mr. Odams, of Bishop Stortford, had invited the members of the Club to pay him a visit, and said that Wednesday, the 19th of June, had been fixed as the day on which the visit should be made.

Mr. EVERETT, after some introductory remarks as to the geographical position of Suffolk, and the history of agriculture in that county, in which he was bred and born, he referred to the 50 points of agriculture, written during the reign of Henry VIII. by Thomas Tusser, who, in those distant days, represented Suffolk as one of the best cultivated parts of England. At that time the greater part of the county was unenclosed, and Tusser was an advocate for enclosures. He spoke of the damage done to crops by cattle going to fairs. In his day an abundance of cattle were reared in the county, and in that respect Suffolk had undergone a great change; but in respect to the large number of hogs then produced by Suffolk, there had not been much change, except in the quality, which was much improved. In those days two of the principal products of Suffolk were cheese and butter, which were largely exported to the Continent. Then the cheese was highly esteemed, but now it was supposed to be as hard as a millstone, and likely to turn the edge of the axe or knife with which it might be cut. Tusser also spoke of the cultivation of hemp, and said that almost every farmer grew a small portion, which was woven by the women for domestic uses. In the discontinuance of that practice the county had lost one of the most valuable employments their ancestors had. One evil the agricultural population suffered from in the present day was the want of something to do when the day's work was over. Another writer on Suffolk agriculture, and much more famous in his day than Tusser, was Arthur Young, who wrote about a century since. According to Young a better system of agriculture was practised in Suffolk than in any other part of Great Britain. The ploughing was then done with two horses, and the practice was to make long fallows—much longer than it would be possible to make now and farm successfully. Swedes were just then being introduced by some of the more advanced farmers; but what a change had come over the scene since those days! The rents of the present day were about double what they were when Young wrote. All the intelligent farmers were making great havoc with their hedges (where they were permitted to do so), believing that the larger their fields, if fenced off from the roads, the more likely were they to secure remunerative crops. The stock to be seen in the county to-day was very much improved; swedes, beetroot, and turnips—rarities in the days of Young—were now to be seen in abundance; while mustard, trefolium, and other plants, contributed largely to the prosperity of the agriculturists of the present day. Improved machinery, new manures, and draining—much more largely practised now than formerly—had also helped to produce the most satisfactory results. As to the famous Suffolk horse used for agricultural purposes, its history was involved in obscurity; but the earliest records showed that an independent breed existed in the county, and that the Suffolk horse was always famous for the same characteristics and points it possesses to-day, though improved in shape and colour. One old writer had described the animal as “half horse and half hog,” which, in a jocular sense, was not a bad description of the compact, thick-set shape, familiar to the eye in the Suffolk horse. The breed of the present day had been greatly improved by a judicious selection of the best animals, with a view to correct those faults which had previously existed. Almost all Suffolk farmers were breeders of horses. A few colts were reared as the cheapest and easiest way of keeping up the horse stock on a farm, and, speaking generally, that system prevailed all throughout the county. The greater part of the farmers preferred having a horse to sell rather than to buy. In Young's time, six horses were used on farms of 100 acres, but the means of cultivation had so much improved, that now the standard throughout Suffolk was 4 horses to 100 acres. The tendency

of farming was to crop as much as possible and to plough less; and at the present time farmers were rejoicing in the introduction of the double-furrowed plough, which he (Mr. Everett) believed was an old instrument revived in an improved form; and which, when used on light and level lands, would do as much work with three horses as two single ploughs would do with two horses each. But on heavy soils, taking all kinds of work into consideration, the double-furrowed plough would never supersede the single plough, though it would enable the Suffolk farmers to reduce the number of horses on their farms. As to the manner of keeping horses, the tenant was never dependent on the landlords for the kind of shelter he had for them. As a rule, horses were very rarely turned out to pasture. They were baited in stables, and then turned out for the night into yards, some of which had sheds, while others were simply fenced round. The ordinary amount of food given to a horse in a week was a bushel of beans and one cwt. of clover-hay, but since maize had been introduced, it entered largely into the food of horses. By some farmers it was ground up with beans, but a better plan was to soak it for about 24 hours. It swelled immensely, and the water altered the nature of the maize. Used in that way with corn, chaff, and a little bran, it was the cheapest food that could be given to a horse. In days long since Suffolk was famous for its cows. The Suffolk cow was a small animal, and it was said that in old times it had horns; but he had never known anyone who saw a horned Suffolk cow. Old books told them that it was of a dun colour, quite small, but exceeded by no other breed for its valuable milking qualities. Now, however, the animal was quite changed in colour, and very much improved in form. What was now called the improved Suffolk breed was a red animal, a good deal resembling the Pole Scot, excepting in colour. It still retained many of the valuable milking qualities of the old Suffolk cow, while it was much more pleasing to the eye, and was not a bad animal to graze. For dairy purposes they were very useful, but beyond that there was no trade in them in the county, nor, as a rule, were they the animals which the farmers of Suffolk grazed. Cows for that purpose were bought out of the county. After referring to the superiority of the North Country or Yorkshire Shorthorns for grazing purposes, though many Irish Shorthorns were fast being imported into Suffolk, the lecturer said another practice prevailing in the county was to buy up the calves from Buckinghamshire and other counties, as soon as they could be taken from their mothers, and to wean them at home. When meat was very high he thought that was a wise plan. The manner of weaning calves was to give them fleet-milk, gruel, linseed and bran with a few pulped roots, or anything else they could be got to eat. The practice was one requiring some little skill and attention on the part of the man who had the management of the stock, but it was carried on to a considerable extent by many farmers, who thought it was a means of spending less and bringing more in. In addition to the Irish cattle a few Welsh were brought over to be fed on the marshes in the summer, but no one in Suffolk thought of buying Welsh cattle to graze in the winter. During the past year Dutch cattle had been introduced to some extent; and his (Mr. Everett's) experience was that a good young Dutch heifer, properly treated, would pay for such treatment nearly as well as English heifers. Many thousands were introduced into the county last year, and if the Dutchmen continued to bring them they would find a ready sale. Three systems of grazing were pursued. In the winter the cows were turned into a yard with a shed, and were allowed to roam at will, feeding out of troughs common to all. In that way the beasts did as well as any. Another plan was to tie the beasts up in stalls, keeping them changed and cleaned out as often as possible. The advantage of that system was that every beast got its own food. A third system, of which there were many advocates, was to put one or two bullocks in a place by themselves, which, besides the advantage of each having its own food, gave the animals some degree of liberty. For that system much larger premises were required, and it was a much more expensive way of feeding cattle. On arable farms summer grazing was being greatly introduced, and the system pursued was to keep the animals in the barns, which were large, dark, and cool. The feed given was trifolium, tares, and similar green stuff cut up and mixed with corn, chaff, and cake. With such treatment it was found that farmers could make beef as well in July as in the winter months. The sheep grazed in Suffolk was a half-bred sheep got by a white-faced ram from

a black-faced wether. Yorkshire stood first as supplying the largest number of hogs, and Suffolk second; but he did not consider it greatly to the credit of the Suffolk men to say so. It was far more difficult to make meat in the shape of pork and get money by it, than it was to make meat and get money in the shape of beef and mutton. Great improvements had been effected in the breed of their hogs, but if they sold at 6d. per pound they only just kept their money together. It was found that pork sold best in the harvest months. They were not, however, a profitable investment as a rule. Next speaking of the management of the soil, the lecturer, referring to the treatment of heavy land, said the first thing which had to be done was to drain it, and there was much heavy land in Suffolk which would be all the better if drained. The old system of draining was to lay the pipes 30 inches in depth, and one yard from drain to drain; then to fill in with bushes, leaves or straw, or still better, with tiles. Recently however, some farmers had advocated draining deeper and wider, and now in many cases the drains were placed four feet deep, and nearly twice as far one from the other as they used to be. Judging from the character of the men who adopted that system, he was inclined to think it was the best. Many of the best farmers had done away with the "stitches," and farmed on the level; and that system appeared to him to be by far the best. It enabled the machines to work much better. On the heavy lands the four-course shift was almost universally adopted throughout Suffolk; or perhaps it would be better described by calling it a two-course shift, the principle being a green crop, and a corn crop alternating. The fallows generally followed wheat stubble, and on heavy lands it used to be the practice to plough the land all through the year, thus resting it and enriching it by the effect of the air, but with the rents the farmers now had to pay, they were not able to follow their fathers' practice in that respect. Having described the rotation of crops, in the course of which he spoke of the extensive introduction of beetroot into the county, Mr. Everett alluded to the mixed soil farms, on which green crops consisting of rye, trifolium, and mustard, were extensively cultivated. He did not think there was any crop which would take the place of trifolium. It was of comparatively recent growth, and was not so widely cultivated as it ought to be. It was usual on mixed soil farms to take two crops in a year. Rye being the earliest spring feed, that was cultivated first, and it was found that beet grew in remarkable quantities after it. As to the light lands, they were usually let in larger quantities than the other descriptions of land; mixed soil and heavy soil lands were let in farms varying from 50 to 300 or 400 acres, but 200 acre farms were the most common. The light land farms ranged from 200 to 3,000 acres, but the greatest part of them averaged about 1,000. On such farms the rule was to keep the land cropped, but on many of the light land farms some portions of the land was so poor that it did not pay to cultivate it on the four-course system, and on such land the farmer would only take a crop once in two or three years, giving it rest in the interval. The maxim with the Suffolk farmers was, if they wished to find their way to the workhouse, to farm high on light land. As to manures, they used to cart it on in hills, and turn it over twice, but that system was quite exploded, though they were sometimes obliged to make hills when they wished to empty their yards. But they made as few as possible, and those they did make were only turned over once. With reference to wages, perhaps the least that was said on that subject the better, for the masters thought that if the men were quiet they should be quiet too. The average pay of the labourer in Suffolk was 12s. per week, but the horseman got from one to two shillings per week more, according to whether he was under or upper horseman. He found from his own accounts that the extra wages paid to the men for task work, for hay-making, and harvest work, amounted to about 3s. per week all the year round. So that the average pay of the labourers in Suffolk was from 14s. to 15s. per week, besides which their cottages were let at small rents; they generally had a good piece of garden, and got good wholesome milk for little or nothing. Their position would, therefore, compare favourably with that of labourers in towns earning 17s. per week. As he had before stated, the labourers in Suffolk were quiet, and if they made a stir they would probably go farther and fare worse. There was, no doubt, vast room for improvements in the agriculture of Suffolk; the farmers could do with less game, of which he heard bitter complaints from some quarters. He did

not wish to see partridge and pheasant shooting done away with, but he did think the ground game might be very well dispensed with. Great improvements were required in the farm buildings in some parts of the county, and better accommodation for stock was sadly wanted. Their treatment of manure was also capable of great improvement; and another thing much needed was the application of more capital on the land. He did not think it would pay to expend more money on the light lands; but on the mixed and heavy lands there was a large field for the application of capital—in the shape of draining, deep cultivation, and the keeping of almost an unlimited quantity of stock. There was one thing he hoped to see, and that was better security for the tenant's capital; so that while the landlord had justice done to him the tenant would be made secure for any money he might lay out. While there was room for much improvement, Suffolk could still hold its own as a well farmed county.

Mr. STONHAM took exception to Mr. Everett's remarks as to not spending money on the high farming of light lands. They all knew the disappointing character of light lands, but they were not always to be despised. In the year 1860 there was much land of a cheap character in some parts of Kent, which yielded far more valuable crops than the best land in East Kent. Wherever he saw clover crops grown to perfection, he always looked upon them as a sign of fertility and good management. He had not heard so much said about that crop as he should like to have heard. They knew that in Kent—especially in this part of it—both on light and heavy soils, nothing could be so emphatically called the mother of wheat as a good clover ley. The attention of all farmers ought to be directed to occasionally getting a good clover crop, because, if they followed with wheat, they were sure to get a good crop of wheat also, besides which it was the best tilth for barley or oats. He could not agree with Mr. Everett as to "catch" cropping, and he was not aware that he ever grew a piece of rye that was worth the sowing. There were many causes which militated against second cropping, and one was that it prevented the farmer having his land in hand, so that he might deal successfully with the crop that was to follow. His advice was that they should endeavour to secure one good crop, and have no fear as to not being able to keep their stock all the year round. After some observations as to the advantages to be derived from growing trefoil and sainfoin on the light lands of Kent, Mr. Stonham explained that the Kentish mode of preserving the root crops was to put them up in small conical clamps, about a rod apart, and slightly cover them with earth. When they were wanted they were distributed about the fields for the sheep to feed off.

Mr. COLEY, after expressing his appreciation of the highly practical address they had listened to, said, with regard to Mr. Everett's observation as to folding off mangel-wurzel between Michaelmas and Christmas, he did not think there was much nutriment in it until after Christmas.

Mr. ELGAR could not quite agree with the lecturer's observation that the less money there was employed on light land the better. He remembered being present at an agricultural meeting when he heard an old man employed on a light-land farm say to Earl Darnley: "My Lord, you may depend upon it that if you starve the land, the land will starve you." The man who made that remark being a very practical old fellow, it seemed there was a great deal of truth in his observation.

Mr. FOSTER bore testimony to the fact that some descriptions of light land, when treated well with plenty of manure bore abundant and remunerative crops.

Mr. CHITTENDEN pointed out that the observations of the lecturer had been directed to light lands which would not pay for manuring, and to spend money on such lands would indeed be a folly. His experience was strongly in favour of giving the land rest, and he believed it was much better to get three very good crops in preference to four fair ones. He was also an advocate for growing heavy root crops, especially mangel-wurzel, and he quite agreed with all Mr. Everett had said in reference to the management of stock. The system of rearing calves he had spoken of might be followed in this district with considerable advantage; for they could get better fattened animals than they now purchased of the importers. He condemned the system of trying to get two crops a-year out of the land.

Mr. LOVETT asked if steam cultivation in Suffolk was much approved of?

Mr. EVERETT said he only knew two or three farmers who cultivated by steam, and they were exceedingly pleased with the results. They were large heavy-land farmers; but steam cultivation was so expensive that the bulk of the Suffolk farmers were not in a position to touch it.

The CHAIRMAN asked Mr. Everett if the practice of giving horses mangel wurzel was followed in Suffolk? He himself had seen it done there, and he thought the practice was on the increase in Kent.

Mr. EVERETT, in reply, said, with regard to the question of light land, he thought one gentleman (Mr. Chittenden) had sufficiently explained that difficulty. There was light land and light land. Of course, in the case of such light land as that mentioned by Mr. Foster it would be a pity not to cultivate it well, but they found that on the light lands of Suffolk, if large quantities of manure were put on the crops sprang up after the spring rains, but if there was a dry season afterwards they came to nothing. That had been the case during the last eight years, which had been the driest on record. If they put

their manure on heavy land they put it into a safe bank, because if they did not see its effects in the first year they would in the second. As to steam-ploughing he might mention that a gentleman near to him had worked a steam-plough for five years, and he was so much satisfied with the results that if he had not got one he said he should purchase one. He occupied about 2,000 acres of land, and it was only on large farms that the steam-plough could be used to advantage. He hoped that in course of time they would see a great improvement in that respect, because with the steam-plough they would be able to cultivate to a much greater depth, and, of course, with more profit. He repeated his remark with regard to taking two crops in one season, and said the value of the system depended entirely on the mode in which it was carried out. As to feeding horses, he did not think the practice of giving beet-root was kept up as it used to be. From Christmas up to the spring the horses thrived very well on beet-root, but the sheep and neat stock required so much, that the farmers found it more profitable to give it to them rather than to the horses.

A vote of thanks to the lecturer terminated the proceedings.

AGRICULTURAL REPORTS.

REVIEW OF THE GRAIN TRADE DURING THE PAST MONTH.

There is just now considerable speculation as to what will be the result of the harvest. We have now entered one of the most critical periods, namely, the flowering season of the cereals, and as in order to ensure a fair yield of grain a warm, dry, still atmosphere is a great desideratum, some anxiety is felt with reference to the weather we shall experience during the next week or so. Until very recently the progress made by the wheat plant had not been at all satisfactory. There had been great discolouration visible, and as no small proportion of our wheat is grown on heavy lands, it was rightly argued that a continuance of wet weather would greatly endanger the extent of the yield. The change, therefore, from damp and unsettled to comparatively dry weather, with a temperature more in accordance with the time of year, has produced much satisfaction. Everywhere prospects have become more encouraging. The plant has partially recovered, and although some doubts are still expressed as to the probability of an average crop being secured, it is very evident that the position of affairs has materially improved. Hay-making is making fair progress; notwithstanding that carrying is impeded in some districts by the frequent falls of rain. So far as we can learn, the crop is a heavy one, and the quality generally is good. Continental advices are more satisfactory. In Russia there have been many refreshing showers, and the apprehension of a failure of the crops in some parts, in consequence of drought and defective irrigation have been alleviated. When we consider to what extent foreign parts rely upon Russia for her surplus produce in order to meet their own deficiencies, it is a matter of momentous importance that a good grain crop should be obtained by one of the greatest grain-growing countries of the world. In the Southern part of Europe harvest has commenced, but the operations so far have not been sufficiently extensive to enable an accurate estimate to be made of the yield. From America we learn that crop reports have brightened up wonderfully since the late rains. From the west they are quite favourable. In the districts of the north-west a larger acreage of wheat has been sown than usual, which promises to give an excellent yield. It is expected that the total crop throughout the States will be 220,000,000 bushels. Oats and barley are also looking well. Summing up, we cannot refrain from expressing the opinion that the harvest prospects, both on the Continent and in America, are relatively more favourable than in this country.

The change in the weather has exercised a depressing influence upon the grain trade. Wheat has not been freely offered; nevertheless a fall of 3s. per qr. from the recent highest point has taken place. There has been an almost entire absence of speculation, and a large proportion of the

wheat offered has remained unsold. It is quite an open question whether the circumstances likely to influence the trade justify this decline. Granted that harvest prospects have greatly improved, some time must still elapse ere our stocks will be benefited, and the question still remains—Where are we to obtain supplies to meet our requirements prior to the commencement of harvest? The exhaustion of our stocks steadily continues, whilst the quantity on passage from different ports is much less than last year, with the prospect of a further falling-off as the season progresses. Therefore, should the weather here become unsettled, and there be a probability of harvest operations being delayed, we may look for a sharp reaction. Prices will be to some extent regulated by the probable period of the harvest. With the harvest commenced in the South of Europe, grain which has hitherto been diverted from our shores to satisfy the demands of our neighbours, will now be allowed to pass to us, and the more rapid the progress of the harvest, the greater will be the amount of produce available for us. A significant fact must not be lost sight of. At present the total number of wheat cargoes on passage is 144 against 244 at the corresponding period last year. From Azoff the number is 44 against 112 last year, and we are advised that stocks there have been so greatly diminished as to preclude the possibility of further shipments of importance until the new grain comes forward.

IMPORTS AND EXPORTS OF GRAIN.

The following statement shows the imports and exports of grain and flour into and from the United Kingdom since harvest, viz., from August 26th to the close of last week, compared with the corresponding period in the three previous seasons:—

	IMPORTS.			
	1871-2.	1870-1.	1869-70.	1868-9.
	Cwt.	Cwt.	Cwt.	Cwt.
Wheat	30,465,160	25,563,702	32,244,761	21,321,610
Barley	10,302,244	6,441,471	6,483,297	8,264,614
Oats	8,003,541	6,890,631	8,581,270	4,642,288
Peas	768,880	771,691	1,378,121	922,129
Beans	2,748,757	1,555,763	1,480,908	2,078,979
Indian Corn	14,368,843	11,627,983	14,564,799	10,517,214
Flour	2,524,544	3,612,710	5,126,869	2,993,229
EXPORTS.				
Wheat	2,180,333	3,042,658	338,562	151,550
Barley	15,377	108,111	55,891	100,248
Oats	103,064	1,413,875	191,778	100,245
Peas	7,968	52,965	12,749	23,762
Beans	5,041	17,919	2,281	4,433
Indian Corn	21,062	64,112	14,814	1,174
Flour	78,307	1,342,756	32,300	30,398

Continental advices state that the trade has become much less firm. Germany is still purchasing in the Russian markets

but not so freely as formerly, and there has been a decided tendency to lower rates. In the northern parts of France, also, the tone has become easier; but at Marseilles, where stocks have been reduced to a *minimum*, and where, owing to the limited receipts from the Black Sea, considerable difficulty has been experienced in replenishing, a fair amount of steadiness has prevailed. In America the demand for both wheat and flour has abated. Some new wheat has been offered in the southern markets, and the quality generally has been good. At New York stocks are still light, and shipments continue small.

SOUTH LINCOLNSHIRE.

We are now in a position to write an encouraging report of this district. For the past eight or ten weeks we have had most trying weather, almost incessant rains, and as cold and inclement as in mid-winter. On Wednesday last a most acceptable change took place, and at last we are in summer. We never knew a more difficult season for making progress in farm-work; hence our green crops are very backward, and but few fields of swedes are as yet sown. Mangolds are only just up and receiving their side hoeing on ridges. The only benefit we have received from these continuous rains has been to soften the rough clods in our potato fields. Seldom has this crop been put in more unfavourably. The land could not be got into good order for the planting, and it is surprising to find so many fine fields of healthy-growing potatoes which were planted chiefly amongst clods, and in the roughest state of the soil ever known. The horse and hand-hoe, the ridge harrow, and scuffler, are in constant requisition, and at last a good tilth has been obtained, so that the moulding up will now be done in a fair and business-like manner. The crop, taken as a whole, looks very promising, but backward—the acreage perhaps 20 per cent. below last year. The wheat crops are rapidly changing for the better. Up to the present week they were looking thin and discoloured. They have shot up wonderfully in the few warm days we have had, and will soon be in ear. The crop cannot be a heavy one; but the season when the young ear is fresh formed in the plant was favourable, and a good ear may be looked for, and should the setting be without storms a good yield may be anticipated. Spring corn is looking well. Barley, oats, beans, and peas, all growing admirably, the early peas coming into flower. We cannot report favourably upon our grazing prospects. The grass was never more plentiful. The early spring, being warm and genial, caused an early growth, which the superabundant rains promoted, notwithstanding the unusual cold. All kinds of stock grazed unkindly. At the present time our pastures present the appearance of unstocked meadows even where fully stocked, for one of the drawbacks of the year to our graziers being the high price of stock, many fields have not their usual amount of grazing stock, and much land is laid in for the hay crop. Another sad hindrance to profitable grazing is the universal prevalence of the foot-and-mouth disease, and considerable losses have arisen, chiefly owing to the lame animals lying so long on the wet ground, and thus causing inflammatory action. Very many have been unable to imbibe food of any kind, and have been supplied with gruels, &c., constantly. These perplexing hindrances must cause the price of meat to rule very high. Clipping is general. The early clippers have sustained some losses from cold and rain. Wool is in good demand, and many buyers are in the district. Prices, however, are not yet settled. The pile will be clean and white, but not in good "yolk." Mowing has not yet commenced. The crops of grass and clover are unusually heavy. Stackyards are nearly empty. Harvest prospects not early and good. Labourers are in full work at 2s. 6d. per day of ten hours, and no complaints are now made.

AGRICULTURAL INTELLIGENCE, FAIRS, &c.

ABERGAVERNAY FAIR.—The usual June fair took place on Tuesday. Whether the alteration of the day from the 24th of June to the 3rd of the same month is not become generally

known is a problem, but it certainly had the appearance of such by the slackness of horse dealers who usually attend. The number of horses on show was middling, and there was a depression in the sale, and a slight depreciation in price. Good carters sold at about £60. The cattle department was but meagerly attended, as but little store stock was on show. Cows with calves ranged from £15 to £24. There appeared to be no alteration in the price of sheep and pigs, and they were few in number.

BANNOCKBURN FAIR.—This market, which is one of the largest of what are commonly called the country fairs of Stirlingshire, took place on Tuesday. The show of cattle was not so large as in recent years—a circumstance chiefly to be attributed to the small turnout of home-bred stock. There were exceedingly few Ayrshire milch cows on the ground, and the result was that those who held this class of stock experienced a profitable market, with an excellent clearance. Ayrshire cattle for grazing, as well as crosses, enjoyed a fair sale. In the Irish department the sale was somewhat slow, but a considerable amount of business was done at recent prices. Fat cattle were in demand, and the currencies of the Edinburgh and Glasgow markets were fully maintained. In the horse fair the display was limited, but it included some very good draught animals, which realised high prices.

BRADFORD SUMMER FAIR.—At this fair on Monday there was one of the largest shows of horses yet seen at Bradford. Draught horses were numerously represented, some fine roadsters were on sale, and there was a goodly number of ponies. Good animals were in request, and sold readily at high rates. First-class horses, suitable for dray and town work, ranged from £50 and £70 up to £80 each, medium agricultural horses from £18 to £40 each, roadsters from about £25 to £40 and £50, ponies from £18 to almost £40, and Welsh ponies from £8 up to £15. Cattle were in abundance and sold pretty well. Calving cows were worth from £20 to £26, cows in calf (laying-off), were from £20 to £23, and gilts from £15 to £20. There was a fair lot of pigs, small stores ranging from 21s. to 25s., middle stores from 35s. to 40s., strong stores from 60s. to 80s. Trade was rather slow. For a lot of Irish goats 25s. to 30s. was asked, and 8s. for kids. The attendance of dealers, buyers, and visitors was unusually large, and it was a matter of some difficulty to traverse the grounds, ample as are their proportions.

LEDBURY JUNE FAIR took place on Tuesday last, but was a somewhat small one. Fat stock was but limited in supply, the price being 8d. to 9d.; stores were rather dear. Cows and calves, from £18 to £25. Sheep, 8d. to 9d.; ewes and lambs, £3 10s. to £4 5s. Pigs in pretty good numbers; prices moderate. No horses.

MUIR OF ORD.—This market, held on Thursday, was well attended, the number of stock exposed being 130 above the June market last year. Several heavy lots of Caithness cattle were on the ground, as well as large lots from the principal farms of the surrounding districts. Few fat cattle were present, and these were readily picked up at from 76s. to 80s. per cwt. Strong store cattle were higher in proportion, and for this description of stock prices exceeded anything hitherto known at this market, the advance being estimated for two-year-olds at 30s. to £2 each from May market. The rapid advance is owing to the superfluity of pasture, which can hardly be kept down. Highland stirks fetched £5 to £7; two and three-year-olds, from £9 to £11; cross stirks, £11 to £16 10s.; two-year-olds, £19 to £24 10s.; farrow and milk cows realised £12 to £20. Numbers of cattle last year, 1,466; to-day, 1,599.

NEWCASTLE FAIR.—The fair on Monday was largely supplied with young stock, many very promising animals being shown in stirks and heifers. Barren and milking stock were somewhat scarce. Many people were in the Smithfield, but the continued high rates of stock evidently checked sales, so that it cannot be said that business was brisk. A number of store sheep and lambs met with a ready sale. The supply of pigs was unusually large, and they indeed were the only animals in which rates were easier. Horses were numerous, but the general complaint was that they were very dear. A number of good animals were shown, and those exchanging hands were at high prices. The Smithfield during the day presented a very business-like appearance.

NORTHAMPTON JUNE FAIR.—There was a fair show of store cattle on offer, and trade was firm at high rates. The

show of fat cattle was good; trade was good, and prices high. Cattle at market: Stores 540, fat beats 53 at 5s. 4d. to 5s. 8d. per stone, calves 19 at 7s., sheep 920 at 5s. 4d. to 5s. 7d., lambs 210 at 8s.; fat pigs 130 at 10s. to 11s. per score; store pigs 225.

WHITCHURCH FAIR.—The monthly fair for June, held on Monday last, was not overstocked with cattle, and what were shown were not of particularly first-class quality. Stiffish prices were asked in nearly every case. In Newtown there was a poor show of pigs. Porkets were in most demand, and they sold well. Cooper and Sons sold an unusually large number

of sheep and pigs and fat calves at their Smithfield, also about seventy head of cattle.

WORCESTER FAIR.—There was a good attendance, and business ruled active for most kinds of stock. Beef ranged from 7½d. to 8d., best quality mutton fetched 9d., but for the inferior kinds prices were a shade lower than at the previous fair. Lambs sold at from 35s. to 40s. a-piece. Cows and calves fetched as much as £22. The sale of pigs was fair, without particular change from previous prices. Veal fetched from 8d. to 9d. per lb. The supply of horses limited, good useful carters selling at £40 to £50 a-piece.

REVIEW OF THE CORN TRADE DURING THE PAST MONTH.

The month of June commenced with a very doubtful aspect, there being several early morning frosts and frequent cold and ungenial rains. Such a beginning was very disastrous to the fruit-trees, the apple-blossom being clean swept off before it was set; and, as the wheat was coming into ear, its position became very critical. After, however, a week had passed, we had indications of summer weather, which were happily verified, just in time for the crops, which now have every chance of proceeding favourably; and though it is still thought the clays and badly-drained loams will have but a poor yield, matters have become very generally hopeful, especially for every species of spring corn. The grass all along has looked well, having passed through the frosts with apparently no other damage than checking its very promising growth, and now there seems every reason to expect an abundance of hay. Such a beginning of the month, on short supplies of wheat in the country, but moderate arrivals from abroad, and dubious reports from Southern Russia, the Principalities, and Hungary, could not fail strongly to influence the market, and a rise of 2s. per qr. was the consequence, with an advance of 4s. per sack on town flour; but the advance was rather more than lost subsequently, by the continuance of splendid weather, the sultriness of which closed in thunderstorms, which have brought about a lower temperature, with fine breezes, still more favourable to the growing crop. The hay harvest has begun under extremely advantageous circumstances, and now the wheat question resolves itself into the state of stocks on hand and the weather: the former has been much reduced as to fine foreign, and we hear that stocks are not abundant in the country, though, since the late rise, deliveries have certainly been more free. The imports from abroad are not expected to be heavy, either from the Baltic, America, or even Southern Russia, though steamers to carry 100,000 qrs. are engaged in that direction, and those arriving quickly have sometimes a sudden influence on prices. Yet, fairly as we are now proceeding as regards the weather, we are not yet out of the wood, and, after all the irregularities of the past, it would be presumptuous to make sure that it will remain fine. This consideration alone is sufficient to prevent holders from accepting any material reduction this side harvest. The following prices were recently current at the several places named: Native white wheat at Paris 63s., red 50s. to 60s., Chili white 63s., red wheat at Brussels 61s., at Antwerp and at Liege the same, mixed Polish at Amsterdam 60s., white Zealand at Rotterdam 61s., best red at Hambro' 61s. 6d., at Cologne 58s., at Pesth 55s., high mixed at Dantzic (cost, freight, and insurance) 64s., at Königsburg (cost, freight, and insurance) 63s., red at Stettin 57s. (free on board), best wheat at Zurich 62s., in Switzerland and Romanshorn 61s., white wheat at Bor-

deaux 59s., red Richelle at Marseilles 58s., white at San Francisco 57s. (cost, freight, and insurance), red at New York 52s. 6d. (cost, freight, and insurance, and free on board).

The first Monday in Mark Lane opened on a small supply of English wheat and moderate arrivals of foreign. The show of fresh samples on the Essex and Kentish stands during the morning was limited. Factors, with the weather unpropitious, were generally asking more for fine lots, and in some instances succeeded in obtaining it, there being no giving way in secondary sorts. The foreign trade, though quiet, was firm, prime old Pomeranian red brought high rates, some Rostock as much as 70s. per qr., and all Saxonska and red American sorts of good quality were fully as dear. The weather being ungenial, and London reports favouring an upward movement, several places in the country were 1s. higher. At Liverpool prices were well maintained on Tuesday, and so they were at the closing market, but without much animation. Several of the Scotch markets were about 1s. per qr. higher, but Glasgow was only firm for wheat, and Edinburgh rather dull. At Cork wheat moved off briskly at the previous rates, while at Dublin, with scarcely anything on show, the trade was dull.

On the second Monday there was a slight increase of the supplies, both English and foreign. There were but few fresh samples sent up during the morning from the near counties, and the weather continuing cold and wet factors were generally asking an advance of 1s. to 2s. per qr. for English samples. One shilling was eventually obtained on good red, but white being held for the same millers declined buying it, so samples were left uncleared. The best Australian and other fine white foreign were generally held for an advance of 1s., and red at 1s. to 2s. more money. Cargoes off the coast found a quiet sale at previous prices. The weather this week, though early indicating improvement, was still so undecided that nearly all the earlier markets were 1s. per qr. dearer, and some more, as at Ipswich and Horsham, while Hereford and Hungerford were up 2s.; but as the week wore and became decidedly fine former prices were no longer attainable. Bedford, Northampton, Saffron Walden, and some other places, giving way 1s., Liverpool was 3d. to 4d. per cental on Tuesday higher, but lost 1d. on Friday. At Glasgow prices were 1s. per qr. higher, at Leith the previous rates were with difficulty supported. At Cork prices were firm from the small supply, but prices at Dublin were rather easier.

On the third Monday the English supply was rather improved, and so was the foreign. Though the show of fresh samples from Essex and Kent during the morning was small, so complete a change for the better had taken place in the weather, which gradually had become hot

and forcing, that sales were quite stopped for a time, though factors were willing to accept a reduction of 1s. to 2s. in order to make way. As they would not go beyond this, very little business was done. With moderate supplies of foreign, holders were not disposed to press sales, but there was no selling without accepting fully 1s. per qr. less money. Floating cargoes could only be placed at 1s. reduction. The extraordinary change experienced, which first was sultry, followed by thunderstorms, which brought beautiful and growing breezes, could not fail greatly to affect all the country markets. In some it quite stopped business, in all it had the effect to limit it, and most places were glad to make progress at 1s. decline, as Hungerford, Leeds, Lynn, Newark, Newcastle, and Salisbury; others accepted 1s. to 2s. less, as Frome, Hull, Ipswich, Stockton, &c., and at some places millers wanted a still greater reduction; Liverpool was 2d. per cental down on Tuesday, and again easier on Friday. The Scotch markets also came lower, as well as those in Ireland.

On the fourth Monday the English supplies were small, and the foreign very good. The show of samples from Essex and Kent was limited, but the continuance of very fine and favourable weather reduced the attendance; and though factors were willing to accept 1s. to 2s. less than on the previous Monday, but very little business was done. The foreign trade under the same influence was quite on a small scale, and fully 1s. per qr. cheaper.

The imports into London for four weeks were 19,222 qrs. English wheat, 59,351 qrs. foreign; against, 12,229 qrs. English, 97,999 qrs. foreign for the same time last year. The exports were 1,472 qrs. wheat; against, 5,791 qrs. at that period. The imports into the Kingdom for four week's ending 15th June were 1,892,476 cwt. wheat, 188,729 cwt. flour. The general averages commenced at 57s. 9d. and closed at 58s. 8d.; those of London began at 61s. 9d., and ended at 61s. 11d.

The flour trade has been influenced as usual by that of wheat; country sorts first rose 1s. and then fully lost the advance; barrels giving way 6d. also. But town millers on the second Monday advanced their long-standing price of 50s. to 54s. for the first quality, at which it closed. The rates in America have been much too high for the English market for some time. The imports into London for four weeks were 78,969 sacks in country sorts, in foreign 10,094 sacks 3,004 barrels; against 58,505 sacks country, 18,035 sacks 59,691 barrels foreign last year.

The imports in maize during the month, though not very heavy, have increased, and the expectation of further supplies from America having influence, prices have declined 1s. per qr., leaving rates for mixed American ex-ship at about 28s., white Danube 30s. to 31s., round Austrian 29s. to 30s. The imports for the month were 64,274 qrs.; against 41,637 qrs. in 1871.

The malting season being over it mattered little that the supplies of fine barley were short, but the ungenial opening of the month kept prices to their full height notwithstanding the small demand, and there has been no change since, though fair supplies from abroad have made sales of low sorts more difficult and rather in buyers' favour; stained and heated parcels not being worth over 22s. to 23s., fresh Danube 25s. to 26s., French 27s. to 28s. Stocks are but small, and there is generally a clearance of foreign by the close of the season, and this sometimes induces a temporary improvement in prices. The imports for the month into London have been 707 qrs. British, 40,729 qrs. foreign; against 334 qrs. British, 33,325 qrs. foreign in 1871.

The malt trade throughout the month has been very steady, and at first, with bad weather, prices were harden-

ing; but since it became fine holders have been more anxious to sell, and this has tended rather to lower values.

As is usual during the summer months the bean trade has been very quiet, more especially as oats and maize have ruled low; but the small supplies have prevented any depression in value. Small hard new winter have brought 42s.; other English sorts in proportion. Foreign sorts have not materially changed, the only free import being on the first Monday. The London arrivals for the month have been 1,603 qrs. English, 6,164 qrs. foreign, against 690 qrs. English, 4,842 qrs. foreign for the same period in 1871.

While the small supply of English peas has kept home-grown qualities at their previous value, increased arrivals from abroad have lowered the price of non-boilers about 1s. per qr., with but a slow sale at the reduction. The best boilers are now not worth over 41s., inferior white 38s. to 39s. The imports into London for the month have been 917 qrs. English, 16,180 qrs. foreign, against 72 qrs. English, 5,474 qrs. foreign for the same period in 1871.

The oat trade this month as well as during May has been abundantly supplied with foreign qualities; but English sorts have been scarce, and of Scotch and Irish there have been none. Every market has more or less tended downwards, there being an expectation of plenty from Sweden and the Baltic, while the time will soon arrive for the new Russian shipments to appear. The month's decline has been in all 1s. per qr., leaving the value of 40lbs. swedes, 21s.; 38lbs. do., 20s.; sweet Russian 38lbs., 21s. At these moderate rates it is not to be expected that much reduction can ensue, while the fine prospect of a hay-crop this year is against any material advance. The London imports for a month were 1,048 qrs. English, 170,552 qrs. foreign, against 3,848 qrs. English, 93 qrs. Scotch, 343,884 qrs. foreign in 1871.

With very short supplies of linseed all through the month the value of this article has been fully maintained, supplies being only 6,002 qrs., against 13,951 qrs. in 1871.

The seed trade, which was hardening during the rough weather, has relaxed into dulness, but stocks of clover-seed are very small.

COMPARATIVE AVERAGES.

Years.	WHEAT.			BARLEY.			OATS.		
	Qrs.	s.	d.	Qrs.	s.	d.	Qrs.	s.	d.
1868...	23,965½	66	1	633½	39	2	1,686	29	3
1869...	48,459½	46	2	378½	32	2	1,107½	27	8
1870...	58,547½	48	0	783½	32	5	1,654½	25	0
1871...	41,722½	69	7	369½	35	11	1,576½	26	10
1872...	56,340½	68	8	1,314½	34	10	1,451½	23	4

CURRENT PRICES OF BRITISH GRAIN AND FLOUR IN MARK LANE.

		Shillings per Quarter	
WHEAT, new, Essex and Kent, white.....	red.....	58 to 65	62 60
Norfolk, Lincolnsh., and Yorksh., red.....			62 58
BARLEY.....	Chevalier, new.....	36 42	
Grinding.....	Distilling.....	29 33	
MALT, Essex, Norfolk, and Suffolk.....		61 68	
Kingston, Ware, and town-made.....		63 68	
Brown.....		51 56	
RYE.....		36 38	
OATS, English, feed 20 to 25.....	Potato.....	25 32	
Scotch, feed.....	Potato.....	00 00	
Irish, feed, white 17.....	Fine.....	21 24	
Ditto, black.....	Potato.....	26 30	
BEANS, Mazagan.....	Picks.....	32 34	
Harrow.....	Pigeon.....	37 45	
PEAS, white, boilers 38.....	Maple 36 to 38 Grey, new 32 34		
FLOUR, per sack of 280lbs., best town households.....		45 54	
Best country households.....		41 44	
Norfolk and Suffolk.....		39 41	

FOREIGN GRAIN.

WHEAT, Dantzic, mixed	57 to 63.	Shillings per Quarter.	Extra.	63 to 66
Königsberg	56	61.	extra.	62
Rostock	57	59.	fine	62
Silesian, red	55	57.	white	59
Pomerania, Mecklenburg, and Uckermark	55	57.	red	60
Russian, hard, 44 to 48, St. Petersburg and Riga	54	58.	American	61
Danish and Holstein, red 54	58.	American	61	
Chilian, white 64	58.	Australian	62	
BARLEY, grinding 21 to 27	32 to 33.	distilling and malting	28	31
OATS, Dutch, brewing and Poland 18 to 24	15	feed 15	17	
Danish and Swedish, feed 18 to 21	15	Stralsund	18	21
Canada 17 to 20, Riga 18 to 20, Arch. 18 to 20, P'sbg. 19	21			
TARES, Spring, per qr.	small 35	36.	large	44
BEANS, Friesland and Holstein	32 to 33.	Egyptian	31	32
Königsberg	32	33.	Egyptian	31
PEAS, feeding and maple	32	37.	fine boilers	37
INDIAN CORN, white	33	34.	yellow	29
FLOUR, per sack, French	00	00.	Spanish, p. sack	00
American, per brl.	25	26.	extra and d'ble	27

AVERAGES

FOR THE SIX WEEKS	Wheat.	Barley.	Oats.
ENDING	s. d.	s. d.	s. d.
May 11, 1872	56 0	36 7	22 10
May 18, 1872	56 4	35 8	24 0
May 25, 1872	57 9	35 5	23 8
June 1, 1872	53 11	35 5	23 4
June 8, 1872	59 1	35 10	22 11
June 15, 1872	58 8	34 10	23 4
Aggregate of the above	57 9	35 7	23 4
The same week in 1871	59 7	35 11	28 10

FLUCTUATIONS in the AVERAGE PRICE of WHEAT.

PRICE.	May 11.	May 18.	May 25.	June 1.	June 8.	June 15.
59s. 1d.	...	...	...	...	...	...
58s. 11d.	...	...	...	...	...	...
58s. 8d.	...	...	...	...	...	...
57s. 9d.	...	...	...	...	...	...
56s. 4d.	...	...	...	...	...	...
56s. 0d.	...	...	...	...	...	...

BRITISH SEEDS.

Mustard, per bush.	brown 14s. to 16s., white 8s. 0d. to 10s.
Canary, per qr.	new 62s. 56s., old 52s. 55s.
Cloversd., new red and dark purple	68s. 72s., com. 46s. 56s.
Coriander, per cwt.	22s. 23s.
Tares, winter, new, per bushel	5s. 3d. 5s. 6d.
Trefoil, old and low 16s. to 20s.	new fine 24s. 25s.
Ryegrass, per qr.	22s. 24s.
Linseed, per qr.	sowing 68s. to 70s., crushing 60s. 62s.
Linseed Cakes, per ton	£11 5s. to £11 10s.
Rapeseed, per qr.	84s. 88s.
Rape Cake, per ton	£6 10s. 0d. to £6 15s. 0d.

FOREIGN SEEDS.

Cloverseed, red 42s. to 52s.	white 68s. 74s.
Hempseed, small 38s. to 40s.	per qr. Dutch 45s. 46s.
Trefoil	16s. 20s.
Ryegrass, per qr.	22s. 24s.
Linseed, per qr.	Baltic 58s. to 62s., Bombay 64s. 65s.
Linseed Cakes, per ton	£10 15s. to £11 10s.
Rape Cake, per ton	£6 10s. to £6 15s.
Rapeseed, Dutch	72s. 74s.
Coriander, per cwt.	23s. to 24s.
Carraway, new	33s. 34s.

HOP MARKET.

Mid and East Kent	£10 10	£12 12	£17 0
Weald of Kent	8 10	9 9	10 10
Sussex	7 15	8 8	9 9
Farnham and country	11 11	13 0	16 0

YEARLINGS.

Mid and East Kent	£3 0	£4 4	£6 10
Weald of Kent	3 0	4 0	5 15
Sussex	3 5	3 15	5 12
Farnham and country	—	6 0	7 0
Olds	1 5	1 10	2 0

POTATO MARKETS.

BOROUGH AND SPITALFIELDS.

LONDON, MONDAY, June 24.—There have been moderate supplies of Potatoes on sale. The trade has been quiet at our quotations.

Rocks	110s. to 120s. per ton.
Regents	130s. to 140s. "
Flukes	140s. to 160s. "
Victorias	60s. to 00s. "
Jerseys	new 8s. to 10s. per cwt.

PRICES of BUTTER, CHEESE, HAMS, &c.

BUTTER, per cwt.: s.	s.	CHEESE, per cwt.: s.	s.
Dorset	114 to 118	Cheshire	70 to 84
Friesland	86 90	Dble. Glouc., new	50 60
Jersey	80 90	Cheddar	80 90
Fresh, per doz.	12 14	American	58 68
BACON, per cwt.:		HAMS: York	102
Wiltshire, green	70 76	Cumberland	102
Irish, green, f.o.b.	70 78	Irish	78 98

FLAX, &c.

For hemp there has been only a moderate demand, but prices have been steady. Flax and jute have been in limited request.

Hemp, Petersburg	£ s. d.	£ s. d.	Coir yarn	£ s. d.	£ s. d.
clean, per ton	35 0 to 0 0	0 0	Junk	0 0 0	0 0 0
Outshot	32 10 0 0	0 0	Fibre	13 10 33 0	
Half-clean	30 0 0 0	0 0	Flax, Riga	40 0 50 0	
Riga, Rhine	37 0 0 0	0 0	St. Petersburg, 12		
Manila	70 0 0	0 0	head	38 0 46 0	
East Indian, Siam	16 0 27 15	0 0	9 head	29 0 31 0	
Jute	11 15 28 0	0 0	Egyptian	54 0 60 0	

ENGLISH WOOL MARKET.

LONDON, MONDAY, June 24.—The Wool market has been steady in tone, but the actual business concluded has not been extensive. Lustres are still principally dealt in, but demilustres and most other sorts are neglected.

CURRENT PRICES OF ENGLISH WOOL.

FLEECES—Southdown hogs	per lb.	s. d.	s. d.
Half-bred ditto	1 8½ to 1 9		
Kent fleeces	1 9½ 1 10		
Southdown ewes and wethers	1 10 1 11		
Leicester ditto	1 8 1 8½		
Sorting—Clothing, picklock	1 8 1 8½		
Prime	1 7 1 8		
Choice	1 4 1 5		
Super	1 3 1 3½		
Combing, wether mat	1 2 1 2½		
Picklock	1 11 1 11½		
Common	1 7½ 1 8		
Hog matching	1 6 1 7½		
Picklock matching	1 11½ 2 0½		
Super ditto	1 7½ 1 8		

IPSWICH WOOL SALE.—The first sale for the present season took place on Tuesday last in the Provision Market, when Mr. Bond disposed of about 10,000 fleeces of wool at satisfactory prices. The biddings throughout the sale were spirited, the principal buyers being Messrs. Alexanders, Blagbrough, Stanley, Booty, White, and Everard. The highest price realised for half-bred hogget wool was a lot sent by Mr. Skeet, of Rushmere, which made 55s. per tod. Mr. Keer's, Raydon Hall, and various other lots made 54s. to 54s. 6d. per tod. For the Down or blackfaced hoggets, Mr. Harris's, Grundisburgh, made 51s., which was the highest, and Sir Edward Kerrison's Down hoggets 50s. Some half-bred ewe wool of Mr. Dawson's, Stratton Hall, realised 51s., and Mr. Seaman's, Ashbocking, 49s. 6d.; Mr. Cordy's, Trimley, 49s., and various other lots of the same wool made similar prices. Some Down ewe wool sent by Colonel Tomline, M.P., fetched 46s., and other lots of Down and blackfaced ewe wool made about the same prices. Every lot was sold.

MANURES.

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AND

AGRICULTURAL JOURNAL

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50 lb. 250 " " " " " " " " " " " "	"	1	3
60 lb. 300 " " " " " " " " " " " "	"	1	7
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AUGUST, 1872.

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THE

FARMER'S MAGAZINE,

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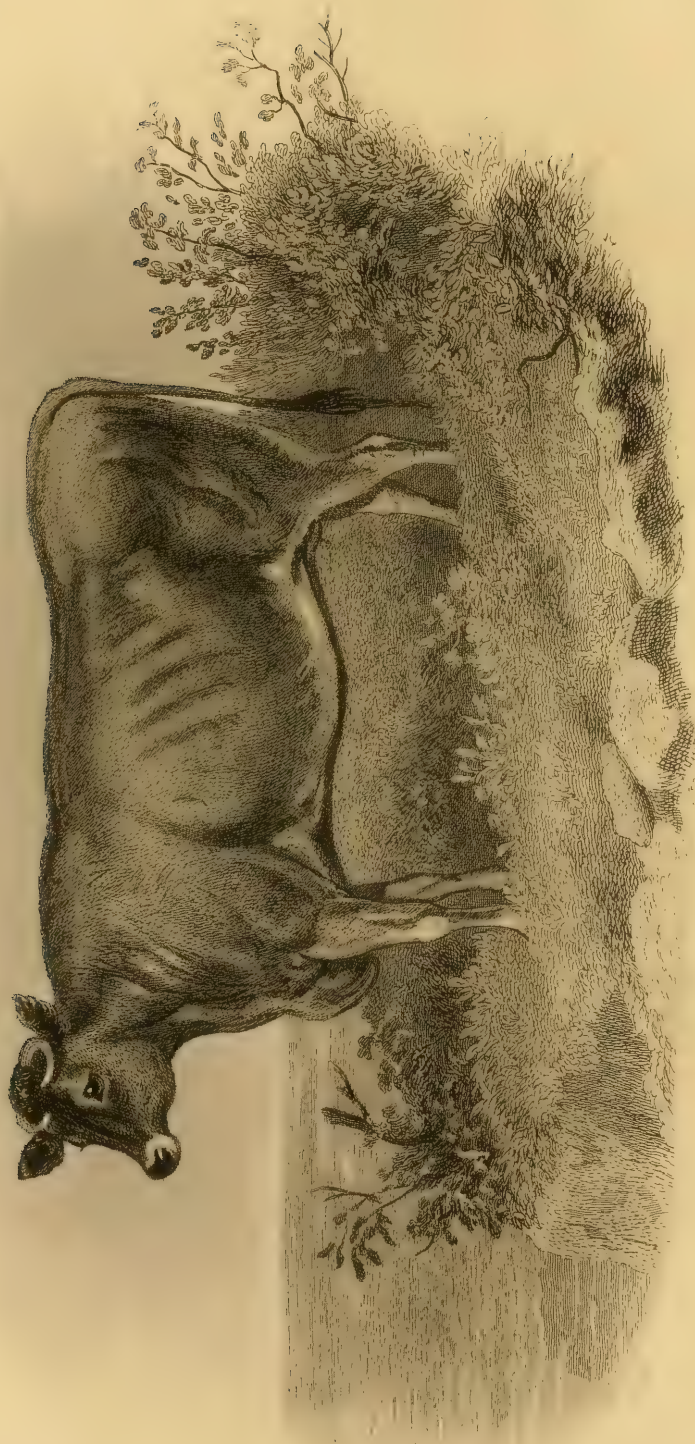
AUGUST, 1872.

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Blue Hill.



THE MOUNTAIN TRAIL

THE FARMER'S MAGAZINE.

AUGUST, 1872.

PLATE I.

BLUE BELL; A JERSEY HEIFER.

BRED BY MR. C. P. LE CORNU, OF TRINITY MANOR, JERSEY.

This heifer was calved in April, 1870, on Mr. Le Cornu's farm, in Jersey. The following is her pedigree:—

BLUE BELL (took Bronze Medal, Channel Islands Exhibition, 1871).

Sire BROWN PRINCE H. C. Jersey Herd Book, No. 85. H. C. Southampton, 1869.	— dam BELLA.	H. C. Jersey Herd Book, No. 390. Took Bronze Medal, Channel Islands Exhibition, 1871.
Sire PRINCE OF WALES First prize, R. Ag. Soc. of Jersey, 1865. Second prize, R. A. S. of England, 1865.	— dam BROWNY.	H. C. Jersey Herd Book, No. 113. First prize, Royal Jersey Agricultural Society, 1865. First prize, R. Ag. Soc. of England, Plymouth, 1865.
Sire NOBLE First prize, R. Jersey Ag. Society, 1861. First prize, R.A.S. of Engld., Battersea, 1862.	— dam DUCHESS.	H. C. Jersey Herd Book, No. 24.
Sire, W. Alexander's 2nd prize bull, R. Jersey Ag. Society, 1859.	— dam J. Arthur's 2nd prize cow,	Royal Jersey Ag. Society, 1863.

It is unnecessary to give a longer pedigree, though there is evidence to show six generations of prize winners, from which Blue Bell is descended. She is light brown, with black tail, tongue, and legs, the only white about her being a small speck on the forehead. She bears the marks of Gurnon's "Flandrine order, 1st Class," as she is said to possess the points essential and recognised for a first-class dairy cow. Mr. Dinsmore, of New York, purchased this heifer at the recent Jersey show for 100 guineas, the highest price ever paid for an animal in the Islands.

PLATE II.

THE BOUNDS OF "THE BEAT."

The Scotch evidence just now being taken at so great a length by the Game-Laws Committee gives an especial interest to our engraving, as there are some authorities very ready to maintain that the letting of shootings is quite as paying a business as the letting of land. The evidence of Sir James Elphinstone and of Lord Airlie is very curious in this way.

ROYAL AGRICULTURAL SOCIETY OF ENGLAND.

MEETING AT CARDIFF.

After a three-and-thirty years' tour about the country, the selection of a site for the Royal show, to be alike central and capable, becomes necessarily more and more of a difficulty, and neither Cardiff nor Hull can be said to possess the first of these qualifications. They are both, in the way of reach, at extreme points; but while the North has already been well worked by the Society, there was at least the charm of novelty attached to any invasion

of South Wales. The breeders of famous stock would travel so far if only to teach the natives a lesson, and the Cambrians in turn would bring forth from their fastnesses, the black and brindled beasts and wild mountain sheep. If the council chose Cardiff on these terms, the argument was based upon false premises. The lesson had already been acted on, as, according to the experience of this meeting, the Welsh farmer has long been familiar with the

merits of Herefords, Shorthorns, and Cotswolds, of all of which he is an exhibitor; but, on the other hand, the most insignificant section of the show was that devoted to the Welsh breeds of stock, which were few in number and poor in quality. With the exception of sundry ponies and cobs, the meeting had, indeed, so little local character that, on any reasoning of this kind, it might as well have been held at Cheltenham as at Cardiff.

The show, again, in many of its more prominent features was barely up to an average. The Shorthorn bulls were mostly moderate enough, although the cows and heifers were better; the competition in some of the Devon classes scarcely extended beyond the two or three prizetakers; there have been far better entries this season of Channel Islanders, and for general strength or individual excellence the Herefords were the only breed of cattle which thoroughly maintained or improved upon their position of late years. Amongst the sheep the longwools—Leicesters, Lincolns, and Cotswolds—had the call; while the Southdowns failed to create that impression they have done; and the Shropshires showed a woful decline from their long lead at Wolverhampton. By way of set-off, there was a capital entry of pigs, whites, blacks, and Berkshires; but in some of the horse classes the judges admitted to putting second-rate animals first, simply from the fact of it being impossible to find anything better. The entries of cattle and sheep were terribly thinned down by the prevailing epidemic, which was known to be raging in the Cardiff district; and the first report of the stewards spoke to ninety vacant stalls in the cattle classes, although this on subsequent examination was found to be below the actual number invalidated. The disease had kept probably the best bull of his day, Telemachus, out of the Shorthorn ring, and the next best, according to public repute, was here beaten. At Wolverhampton, Lord Irwin was first, and Royal Windsor second; but at Cardiff, these places were reversed. There can be no question, however, but that Mr. Linton has been attempting too much with his bull, as he has terribly faded and fallen away since we saw him at Dorchester, from which time he has been exhibited at Halstead in Essex, at Doncaster, and at Ripon, so that in some six weeks or so the white bull has been out five times. At Dorchester we spoke of Lord Irwin as very heavily-fleshed, and of course an animal in such high condition can only be knocked about the country at great risk or more positive detriment, as has been the case here. Our own opinion is that his travels lost Lord Irwin his previous year's place at Cardiff, as although Royal Windsor has also improved into a great reaching bull, of substance and quality, he has not the fine character of the other while, nor do we think Mr. Outhwaite could have won at the West of England show in June. The two may meet again at Spalding and Malton, or if Lord Irwin were nursed for the great Yorkshire meeting he might do better. It must, too, be borne in mind that Lord Irwin did not come to Cardiff under altogether favourable auspices; as although Mr. Aylmer might, after Dorchester, be supposed to go for him, Mr. Drewry at Guildford had aided and abetted in putting the bull quite out of the prize list, from his small weak head—a point which is not susceptible of much improvement. The third bull at Wolverhampton, Iron Master, still wearing well, and with a good "bull's look" about him, was displaced here by another white, the colour finishing first, second, and third, with a roan for fourth. Flag of Britain, from Aylesby, has length, substance, and especially quality in his favour, but "the remainder" must be indifferent, with such an animal as Colonel Lindsey's entry taking a prize. Lord Cawdor's Sea Serpent, nevertheless, has a deal of good about him, and they talked much of the roan, St. Ringgan having

once beaten Sovereign in Ireland, but as Sovereign could do nothing in England this performance cannot count for much, and the Kilkenny bull did not now prove well, being weak in his touch and scant in his coat. The two-year-olds, again, were not up to the Wolverhampton standard, the third and reserve number in the then yearling entry now succeeding to first and second places. The winner, Ignoramus, has made extraordinary improvement in the way of furnishing, his quality always having been admirable, while his increase of substance serves to hide a weak place or two in his frame, and he showed out to great advantage, as from the first the most taking bull in the ring. We fancied Earl of Warwickshire far more at Wolverhampton, where we reported him as not half so much made up as some of the others; and the point now is whether he ever will make up or thicken as he should do? Naturally, with so light airy a gentleman a monthly tourist ticket has little or none of the effect it would have on a heavier fleshed animal, and the Earl Warwickshire still holds his own. It is noticeable, however, that all through the season he has had the same judges committed to him. At Thame Mr. Charles Howard was in office; at Dorchester Mr. Howard and Mr. Aylmer; in Essex Mr. Howard and Mr. Aylmer; in Norfolk Mr. Howard, and at Cardiff Mr. Aylmer; and thus the third Earl remains the most "promising" and the best abused bull in England. Prince Charlie, Master Glauville, Saunterer, and Lord of the Manor were in the next degree, but these never have, as they never can make much mark in really good company. Leeman's vulgar colour is against him, but he was clearly the best of a small and indifferent lot of yearlings, the second being but a plain beast to the eye; the Towneley third straight and square, and Magdala with a good coat and touch. Lady Pigot's son of Bythis and Dame Swift, names familiar enough of late in public, is a really charming if rather backward calf, full of fashion either to the hand or eye; but there were some things better than either the second or third in the class; as, for instance, Mr. Williams' handsome roan from close by, as might be gathered from his unpronounceable Welsh title, or Lord Sudeley's Cherub, or the Irish Forester, if not Lord Cawdor's calf, especially to be commended for his coat.

So far, however, matters had gone smoothly enough, but over the awards in the cow class the outside public began to talk. At Dorchester, where Mr. Aylmer was also a judge, Flower Girl was first, Princess Alexandra was second, and Nelly was commended; and at Cardiff, Nelly was second, Princess Alexandra was third, and Flower Girl was commended. Thus, putting the winner, a fresh cow, out of the way, the awards at Dorchester and Cardiff were reversed, so far as it was possible to overset them, and with one of the judges in office at both meetings! Even further, no one appeared to ever notice Flower Girl until just at last, when they threw her the commendation; and yet, for true Shorthorn style and character, for growth, quality, and symmetry, she was point for point the grandest cow in the class. She was, no doubt, rather too high in condition, and, from forcing from a calf for show, is getting gaudy in her quarter, but not to an extent to disqualify her, or, at any rate, many fatter cows have been passed; as at Dorchester Mr. Aylmer and his brother-judges appeared to have no hesitation in doing so, and we believe their official report for the West of England *Journal* will record her as a really admirable cow. Still, the white Nelly was the best of all the cows and heifers of all breeds at the all-Devon meeting; but though very blood-like, she is too small and delicate; while Princess Alexandra, also growing lumpy, is bad in her touch and vulgar in her appearance; and with these three cows, it

is scarcely possible to understand how Mr. Aylmer could have been over-ruled, as the decision at Dorchester was known to have been unanimous. The first prize, the Northumberland Primrose, is a very airy gay cow out, showing herself to every advantage in the ring, but with her red-and-white spotted coat looking like a sort of half-Alderney, while she is thin in her touch, and with the Shorthorn features nowhere very strongly developed; but she has, we hear, been a winner in the north, and is, in a word, as they would say about Alnwick, "just a nice coo." That rare old cow, English Emily, despite her black markings fore and aft, finished fourth; and Messrs. Bradburn and Statter shared the qualified compliment of a simple commendation with the despised Flower Girl. At Dorchester we spoke of the force with which the late Richard Stratton's herd was coming to the fore, and at Cardiff we have to record the curious discomfiture of the same stock. However, Messrs. Richard and Joseph Stratton are open to show James 1st and five of his produce against the bull and offspring of any other breeder in England. Their famous white Innocence, in the next class of down-calf heifers, although first at Dorchester, was only now commended, while Lamwath Violet, commended at Dorchester, was second at Cardiff; but Innocence is fast growing out of form, and getting so bad behind for a two-year-old, that we doubt whether she will ever show as well as she has done. Still, the class was much stronger, the Lady Dodona being a very good level heifer, with size and style, picked up by chance for £50 from nobody knows where, but with a thoroughly orthodox pedigree. At the recent Lynn meeting, we pointed to horses entered as thoroughbred with impossible pedigrees and their breeders unknown; and here, under very similar circumstances, we have a heifer's age given to the day! It might puzzle a senior wrangler to prove such a problem. The third in this class, Baron Oxford's Duchess, was also third as a yearling at Wolverhampton, as she is now ripening into beef,—good beef all over, and plenty of it, but her badly-turned, badly-coloured horn will always stop her from getting quite to the front; and Violet, of sweeter heifer type, was now justly preferred. The Broadmoor and Churchill Garnes had also two or three nice heifers in this class, but the fourth place went to a native of these parts—a Shorthorn bred in Monmouthshire but by 2nd Duke of Weatherby. Proof of this kind is very interesting, but Lord Dunmore declined to submit to it as regarded his high-priced importations. At Dorchester his Lordship considered that his heifer was quite overlooked, and for Cardiff he also made a few entries, but as he did not send these, the correction is not so apparent. It would, however, have been something to see in the ring Red Rose 3rd, bred by Mr. M. H. Cochrane in Canada, and with a pedigree making continual reference to the American Herd Book; or Red Rose 4th, the little delicate calf, which did get a second prize at Dorchester. But the Red Roses would risk no such further indignities, and so the Townleys are first and third, and the Strattons second and fourth; Mr. Aylmer for once holding to his line in again preferring Village Rose to Mabel, whatever their owner may say to the contrary. Oxford Beauty is a very elegant heifer, and a fine mover out; and had the whole entry come this would have been a very strong class, but out of some twenty-six more than a fourth of these were absent. The best calf—always understanding that the renowned Red Roses were away—was a very gay taking Irish lass, and the class altogether well filled, there being, as with the yearlings, numerous commendations; and here no question the strength of the Shorthorn show centered—that is over these two classes of young things.

There were 147 entries of Shorthorns at Cardiff, and 42 entries of Devons, most of which had already been run

through at Exeter or Dorchester, while some did not come on. In the old bull class, Duke of Flitton 5th was first and Jouquil second, as they were previously, with only one other from Molland, but now transplanted to Monmouthshire in the entry. Again, in the next class Master Harry and Kingcraft, first and second at Exeter, were in the same places here; Picture and Temptress, the first and second cows at Dorchester, were in precisely the same places at Cardiff, and Gaylass was the best heifer at both these meetings. When Master Harry won at Exeter we wrote of him as probably at all points the best Devon of his year; and at Dorchester when Master Harry was put out, we referred to this remarkable revision as altogether a mistake; or, at any rate, we went quite with the previous award. The most interesting event in the Devon classes was the placing of the yearling bulls, where Mr. Jackman's Earl of Exeter, first at Exeter, and Mr. Davy's Duke of Flitton 8th, first at Dorchester, encountered each other, and the judges eventually could not agree as to the better of the two. At the Devon show we spoke of Mr. Jackman's young bull as full of fine character and showing more promise than anything on the ground, and, again, of Duke of Flitton 8th, as bloodlike and straight, and shown at some disadvantage in age. He is four months the junior of the Earl of Exeter, and by comparison by no means so forward, and all due allowance being made in this way his fine quality told, and on "a reference" the Duke won. The two cows are both "pictures;" but the heifer Gaylass is growing very patchy, as is the yearling Fair Rosamond, so overdone that at Dorchester the judges threw her out; and it is difficult to understand how either the first or second Royal yearlings could have been put before Actress 5th, who beat them both clean off at the West of England meeting; as did Mr. Buller, whose heifer was now merely commended. Mr. Davy did not enter his heifer calf, and another Picture succeeded to first place, there being only two others competing against the Dorchester Devon. In our reports of the two previous shows in the West during this season we have already and so lately gone so fully into the merits of most of the Devons exhibited at Cardiff, that it would be idle to repeat ourselves, and no question the point of the business here and there has been the eccentricities displayed over the placing of Mr. Farthing's stock, whose good luck and bad luck have been very nicely balanced.

As with the Shorthorns, there were many empty stalls in the Hereford section of the show, where, however, the entries ran up to no less than 95, a number far above the average, of at least of some years past. There can be no question, moreover, but that at most points this was the best represented of any breed of animals on the Cardiff show-ground. Had we wished to show the stranger an illustration of fine and at the same time uniform character—a type or model continually repeated of that excellence to which a certain description of stock may be brought—we would have placed him by the ring-side when that really magnificent class of Hereford cows was under the examination of the judges. There was not one of these but which honestly deserved her high commendation; while as regards the four placed first, second, third, and reserve, it is seldom indeed that such a bevy of beauties has been brought together. The first of these was also the first at Wolverhampton, Mr. Peren's rather dark-coated but sweet, thriving cow Ivington Rose, from the herd, as her name aptly implies, of Mr. Thomas Roberts, and, according to the Royal judges in 1871, "one of the best Hereford cows ever seen." Still, the compliment was qualified by an opinion as to the Rose being "rather over-fed for breeding purposes;" but she has thrown one calf since Wolverhampton, and is now in calf again. Ivington Rose, of course so handy home

in her adopted country, was first at Dorchester, where our old favourite the beautiful Duchess was second, but at Cardiff in a much stronger class no nearer than fourth. Silk 2nd, put second, is a broad well-grown heifer of very fine character, but for elegance and a certain matron-like look which should always tell in judging a cow class, the Duchess of Bedford should surely take precedence of the merely useful Lady Milton. Still the Duchess triumphed once more over her old rival Dahlia, as she did at Guildford and Dorchester, their places being reversed at Wolverhampton, when we protested against the mistake. In the class reduced by absentees to nine entries, three of the highly and deservedly commended cows are from Monmouthshire herds, and two from Glamorganshire; a fact tolerably significant of how the brindled native breed has fallen into disuse. And any such proof was further confirmed in other ways, the best two-year-old heifer the third prize, and the reserve in the same class, and the best yearling heifer being all from the now famous St. Hilary herd, near Cowbridge, in Glamorganshire; while their excellence and adaptability to the district was pointed by these four heifers, well worthy of rank with the four cows, beating such renowned names on the lists as those of Turner, of the Leen, Tudge, Fenn, and Morris of Madley. The St. Hilary two-year-olds have certainly some few months the advantage in age, but the neat smart Plum has not gone on growing like Sunflower, and hence the Wolverhampton decree was reversed. The yearlings were more thoroughly put about, for Lady of the Teme, Madeline, and Rosaline, as so placed in 1871, now ranked as Rosaline, Madeline, and Lady of the Teme; but judging calves is always something of a lottery, and great growth perhaps in preference to style here again was triumphant. The heifer calves at Cardiff, however, were a beautiful sample, and for character and breed, backed by promise, of great general merit. The Hereford and Shropshire breeders had the honours here pretty much to themselves; but still the natives would not be denied, and one of the best of the bulls was the first prize two-year-old, bred in Monmouthshire, but entered from Glamorganshire. This is Mr. Evans Spencer's Von Moltke, a deep level bull of noticeable good appearance, beginning with a good true head, and very perfect in his forehead, but not quite so kind as he should be in his touch. This class was but a small one, and beyond the second prize, also from Monmouthshire, the competition was not by any means formidable. The fine quality of Bachelor would alone have served to beat his son the Provost, who was rather hard to the hand, but the old bull never showed better, and for style and breed is now about the best Hereford about; in good evidence of which there was nothing near him but one of his own stock. The competition amongst the yearlings was much closer, and the three first would very probably be put in fresh places by a fresh set of judges. Cheltenham Boy, the winner, is a good useful bull, long and low, but rather coarse, and for the winner either the stylish Lord Battenhall, or the bloodlike Prince Joachim, with his good thick flesh, would, we are inclined to think, have been a more popular award. In fact, there was quite a murmur of dissent amongst the little company of Hereford critics as this class left the ring. In a creditable entry Mr. Fenn's Cop Hall, a son of Severus, looked still to be a long way the best, being a high-bred showy calf, with a capital wealthy touch, and altogether so full of promise that his portrait as "the coming man" was straightway taken for *The Farmer's Magazine*. Still they have got the quality at Windsor, where if we are to judge by the Prince and the Marquis none of the herds are now doing so well as the Herefords.

There have been far better exhibitions of Channel

Island produce during this season than that got together at Cardiff, although the Jerseys brought over by their breeders never took either a prize or commendation, but they showed weak and poor in comparison with our comely Queenies and Milkmaids. Mr. Gilby's best cow was merely commended at Wolverhampton, where the native judge did not think much of her; nor has she improved in the interim, and we fancy his second prize heifer a deal more than his first cow. The best heifer, a little too well done by for a Jersey, was second at Dorchester, and first at Windsor; but the judges declined to commend Mr. Simpson's bull Favourite, though they made him the reserve, very properly placing Don above him, and taking for first a very nice yearling bred by Lord Daere and shown by Lord Chesham. But the Latimer heifers, full of Dauncey blood, are of a very different stamp, being high, plain, coarse animals, looking to be quite out of place in a Jersey class. There was but one Guernsey bull sent, and the best cow seemed to be running to beef; but she was partially dried for calving, though in any case the second or third were far more like milkers. One of the best, however, of all the Islanders was Mr. Rendle's Guernsey heifer, of a very nice cow-like character without an atom of coarseness about her, and in every way a credit to her breeder. In the mixed classes of Welsh breeds, including black Castle Martins and red and black Montgomeryshire, the competition was very limited and the quality very moderate. After all we have heard of late of the famous black cattle of South Wales, of how well they do, and of the high prices they make, we should be inclined to consider that their advocates did not do justice to the breed at Cardiff. The bulls are lengthy, slack-framed animals, with some individuality of character, but thin in their touch and gaunt in their frames, and if our memory serve us, we have seen a better show at Carmarthen; as there may be again for the local champion prize in the coming autumn. Still, Mr. Jenkins' best old bull is a prize specimen of the Castle Martins, and has been winning about the country for the last season or two. The pairs of cows were creditable, but if these few entries be all that can be made of such an opportunity, the Welsh farmers may well turn away to the Herefords and Shorthorns. The other breeds included a few Norfolk polls, two or three Longhorns, and half-a-dozen Ayrshires, the polls having all the best of it by the aid of Lord Sondes and Mr. Colman. The bull, cow, and offspring was made up of a Hereford family, which the judges called "a very good class," although, as there was no competition, they must have intended an entry. Shorthorns and Herefords were officially declared to make the best "dairy cattle" in preference to Ayrshires, an assumed fact which we believe it would be difficult to substantiate. Highly-bred Shorthorns and highly-bred Herefords will no doubt look and handle better, but it must be a mistake to record them as more profitable dairy cattle than Ayrshires. More attention is now very properly being given to milk, but if Ayrshires and Alderneys are to be fed up into show condition before they can take the attention of the judges, more harm than good will follow from so curious a system of encouraging milking properties. In Glasgow or Jersey a Shorthorn, a Hereford, or a Devon would never be put into comparison with the native breeds as a milker, and yet at an English national exposition the milking breeds have no chance even when shown on the distinct understanding of being dairy cattle against Shorthorns or Herefords! Will any man dare to maintain that a Hereford cow can pay in the dairy against an Ayrshire or a Jersey? As it seems to us, the judges should act under more stringent instructions when taking a dairy class, and that the places in these classes should be determined by dairy-cattle judges, who would go for milk-producing

as against meat-making qualities; as we shall hold it to be a very serious error to attempt to combine the two, at any rate in an open show.

The horse rings were nicely laid out, but rather confined for want of space, while the shedding was capital, with plenty of room behind the nags to stroll along, without danger or hindrance. Then, there was not a stallion under lock and key, and, with the exception of some strong rails, these were treated as other horses, and not caged up like lions and tigers. In Normandy we have seen 450 stallions at one meeting, all in stalls, and why, in a show-yard here, they should be boxed up, and the public who have paid to see them left to the capricious temper of some sulky attendant whether they shall have a sight of his horse or not, is to us incomprehensible. Managers of show-yards may gain a wrinkle from this, more especially those of Islington and in Lincolnshire. At the side of the nag ring there was a Grand Stand which, as long as it is conducted in the way it is now, with good standing room all along in front of the seats, at a shilling, is no ways objectionable, but we rather hail it as a boon. Soon after eight the judges were on foot, both in the cart-horse and nag rings, which Mr. Jacob Wilson presided over, and, with his experience, everything went well. "If any three men know a horse they are now in the ring," said some one, as the trio were about to commence with the thorough-bred stallions—a very flattering eulogy that we have heard passed on many a learned bench, as true followers in the tracks of others as a blood-hound or a pad-groom, while we have stood by the ring and seen prize after prize awarded to brutes no more entitled to the name of hunters than a rhinoceros; and we could not echo the eulogy volunteered to the Cardiff bench when we saw Laughing Stock put before Christmas Carol, Mr. Jones' brown gelding before old Iris! and a prize given to the overgrown Honeycomb. Of the ten entries in the thorough-bred stallions Carbineer by Rifleman, out of Comfit by Sweetmeat, a Royal winner at Manchester, was absent through accident. He is now the property of the Fyde Horse-breeding Improvement Company, who are also the owners of the cart stallion, Honest Tom. The others were Rallywood 12 years old, a level rather common-looking horse, with no hunting character, though by Newminster out of Woodcraft by Voltigear. Ely, 11 years old, by Kingston, out of the Bloomer by Melbourne, who, with great length and sound-looking limbs, possesses characteristics of his pedigree on both sides, appearing to us to have grown longer and lighter in his middle, and more coltish in his looks than he was at Hampton Court. There is nothing hunting-like about him. Nine Elms, 8 years old by Stockwell, out of Lady Kingston by Kingston, is a taking, lathy-looking horse, with some of the corksiness of the Kingstons, but disfigured in his forelegs by long twisted pasterns. Wild Charley, ten years old, by Wild Dayrell, out of Phemy by Touchstone, smacks somewhat of parade or the park in form, but with such stilty forelegs and stiff pitchy action that would look like bringing either warrior or swell to grief. Harcourt, 11 years old, by Stockwell, out of Ellerdale by Lanercost has thickened since we saw him last, but has scarcely size or forelegs for a hunting stallion, though himself a fair horse across country. Suffolk by North Lincoln, out of Protection by Defence, compactly built, is short in his quarters and thighs, and anything but good in his hind-leg action, as well as being light below the knee; but we have described him over and over again, and though no favourite of ours, we quite agree with the Wolverhampton bench in putting him before such a horse as Laughing Stock, although we went to war with them for putting the coarse coacher Sincerity before the blood-like Blinkhoolie. Reinfrid, aged, by Newminster, out of Marchioness D'Eu by Mag-

pie, is a big horse, with a light neck and deep middle, better to look at in profile than from a fore or aft view, and we think Major Ballard in luck getting third place. Laughing Stock, by Stockwell out of Gaiety by Touchstone, we have described so often with his pump-handle action in the run up and down of a show-yard, where he is as much at home as a Norfolk trotter, or the most venerable of shopkeepers in a dealer's yard. It cannot be form that gets him the prize. Surely the name of Stockwell and that of Mr. Cookson who started him with the Royal hundred at Newcastle must tell with the judges. Look at his neck and shoulders, they don't belong to his carcass: then take him from where the neck runs into the chest, and let the eye follow the line until you come behind the elbow, where he wants at least three inches fall; then see how his belly drops to the sheath, in fact, the under-line is more like that of a leggy hog than a horse. "Just tuck up his goots," as a Yorkshireman would say, and you have more daylight under him than you would meet with in a tour round the globe. Look at his short quarter, and how far behind him are those thighs, and hocks, not remarkable for size. Then his short arms, how they fall off towards the knees, and what a way the latter are from the ground, which accounts for the pump-handle action—no desideratum in a thoroughbred for getting hunters. Compare him with Christmas Carol, 10 years old, by Rataplan, out of Mistletoe by Melbourne. His shoulders are a trifle thick, but not bad, with plenty before the saddle. See how deep he is in the girth; look at his powerful arms and thighs, and how short from the knee to the ground, and how well his hocks are let down, and how beautifully they incline under him. Look at him from head to foot, and if we know anything about horses, this is the one who looks like getting hunters and crossing a country, and not Laughing Stock. As there is so much difference of opinion in horse-flesh, we oftentimes "strike our harp gently;" but when things are palpably wrong to ourselves and others, we think it but right to lay a little stress on the strings. The weight-carrying hunter would appear to be the animal most wanted, judging by the amount of prize-money given for such animals throughout the country, and the price given for known good ones when offered for sale by auction; but they appear to get scarcer every day in the showyard. The only way we can account for such a state of things is that gentlemen with real good horses get disgusted with the decisions, and the money going to some lumbering standstill brute, with no pretensions to the name, instead of the horse who moves strong and well, with hind-leg action, for if he has not the last requisite he cannot be a hunter. In the hunters up to not less than fifteen stone there were seven with two or three hunting-like horses in and among them—including the well-known Iris, who beat all Yorkshire at Wetherby in 1868, was second to Sir Watkin's Expectation at Islington one year, and first there in 1871. He was twice sold at Tattersall's for something like 400 guineas, as well as being a grand looking horse, and going like a tower under seventeen stone, and his late master—who stands six feet two, and is quite that in the saddle—once told us that he never crossed a better. Iris may not be perfection in form; few are. He has strong shoulders, a trifle upright, and is a little stiff in the pasterns, while he brushes slightly under the knee when not properly shod or ridden, and the poor fellow who rode him on Monday seemed afraid of him, and hauled his horse about as if he had the charge of a collier instead of a horse; in fact, he was quite as fit to take the reins of the Government as to show a high-couraged hunter like Iris. The trifling imperfections in the horse are all made amends for by his splendid action, and the grand manner in which he

brings his hind legs under him, and it was thought outside the ring nothing else had a chance to win. We should much like to have two Captain Anstruther Thomsons up, one on Mr. Jones' clambering-going brown gelding, and the other on Iris, and just see which would "brush" first over the broad pastures of Northamptonshire. Mr. Jones' brown gelding is a very hunting-like horse, on a short leg, but with anything but good hunting action, and on this showing was fairly beaten by either The Hon. J. J. Bourke's The Colonel or Mr. C. Williams' Quaker; while Major Ballard was again in luck in getting a third prize with his unmannerly Redwing, which seemed to astonish the Major quite as much as it did some of the spectators. Gay Lad from the same stable as Iris looked like a weight-carrier of a bygone age; and may the next weight-carrier be as good a horse as Iris, who stands 16.2, but does not look it!

Twenty-one came in for the all-aged hunters up to not less than twelve stone, but they were a middling lot. There were three fair horses to the fore, the first prize having a heavy shoulder, and the third something very taking about him. Mr. Basil Mansfield's Premier is a fine-topped bay, but a rather flashy customer; and John Pell, by Laughing Stock, a thickest chesnut, with a heavy forehead and no stride, but with action short and choppy. Then, again, the four-year-old mares or geldings were very poor as a class. The first prize, a big iron-grey horse, Admiral, was beautifully steered by his jockey, and went oily, well, and as a hunter should go. He is not unknown to the prize-ring, but stands rather near together with his knees. Lady Graham is a kind-looking taking filly, with fair action, but has her shoulder a little too forward, and, when stripped shows a long slack back, as we fancy her more as a hack than a hunter. Policeman was a cow-hocked, dishing, slovenly goer; but Mr. Phillimore's chesnut filly by Lifeboat out of Lygonia by Pantaloon, is as nice a mare as any one would wish to see, barring a lightness below the knee, and for which reason, when she was placed second to Luna by Laughing Stock at Wolverhampton, we preferred The Drake out of Becky Sharpe. At Birmingham the judges put her before Luna, who, inheriting the pump-handle action of her sire, is certainly more of a hack than a hunter. Here, however, this thoroughbred with the light forelegs is not noticed, but is ordered out in a middling class with the ruck! Curiously enough Major Barlow was first and third, when she was second at Birmingham, and we really believe she must have been overlooked. Unfortunately for Mr. Phillimore ours is the only court of appeal. The three-year-old mares and geldings were not grand as a lot, the first horse being one of the big coarse Angelus breed, Honeycomb, with head badly set on, heavy forehead, stiff in his hocks, and slovenly hindleg action, like many of Angelus' stock. He has taken eleven prizes we believe; but had he taken forty it would not make the slightest difference in our opinion, which is not formed on those of other people. The Kettledrum gelding is a nice nag had he more wearing-looking forelegs; while Cape Horn is a wiry good-limbed gelding, and likely to grow into something more than a standstill horse. Had the numbers been turned upside down the verdict would have better pleased us, as we look upon it now as simply a beefy and follow-my-leader business. But the time may come, after he has received four or five hundred in prize money, like many a beefy one before, that some of the bench will turn round on their winning horse. There were few to boast about in the hunter geldings and fillies by a thoroughbred horse. The first, by Carbineer, is a nice one, and with some of the quality of his sire, and the second a capital mover. Then, Black Bess in action looks very good, but is a trifle short in the shoulder; while Sabina is also nicely made, and has

the gift of going. The hunting brood mares were a good class, which shows that we have the right stuff in the country still, and when we see fine big-boned thoroughbred yearlings by General Peel brought to the hammer and taken away without a bid we must not be too ready to listen to the songs about the scarcity of horseflesh, although we have forty to one mounted now to what there were in our younger days. The Gentleman in Black, in one of his essays on horseflesh, regrets that the old farmer, to be seen seated in the alehouse settle, with his glass and pipe, and his son bought up on the perfect four-year-old at the covert side, to be for thirty or forty, are found no more. Surely he might have wound up with a requiem on the good old vicar reckoned rich on forty pounds a-year. The matrons were led on by Lady Emily, the Wolverhampton mare, while the second on the list was old Go-ahead, who won at Oxford, and all over the country; and it's the old story again, Lady Emily not placed at Cardiff, and Go-ahead not placed at Wolverhampton, but of these ever-varying verdicts we gave a full account in our Wolverhampton report. Pink, second here, was second at Manchester, and is a nice-looking, fleshy mare, with a heavy forehead, which is not corrected by good hind-leg action, so that the slightest mistake would bring her to grief. She is a placid-looking animal, and lacks the varmint stamp of one accustomed to hounds. The winner, Fairminster by Newminster, out of Fairwater, is a lengthy mare on good short limbs, with well-laid shoulders. The best of the others were Mr. M. Williams' Brandy and Fairlight, Mr. G. Williams' Fashion, Mr. H. Nichols' bay mare, Mr. T. W. F. Williams' Alice, Mr. W. H. Powell's Mrs. Evans, and Mr. J. Evans' Brunette; while Mr. Rogers' Orange Lass was disfigured by a pair of forelegs very much back at the knee. The hackney stallions were poor to what we have seen; and Norfolk Hero, a neat active little horse, with not the best hind-leg action, as a trotter must bring his hind legs under like a hunter, we saw beaten last year at York and Brigg, and Dick Turpin, of nice form, take the first colours at Wolverhampton, the third to him being a horse called Clear the Way, who at Brigg took a second prize, the Cardiff horse, Norfolk Hero, being then quite out of it. We merely mention this in a kind way so that the different benches may meet one another with a smile as well as ourselves, for as we said in our report of Islington no man of intellect would be offended with another for differing with him in opinion about a horse or groom. The third here, Telegram, went as wide behind as some of the sons of Clapham. The hackney brood-mares, with the exception of the first three, were poor; the best, Polly, we described when second at Oxford to Lord Norreys' bay, as a very handsome mare; and here she was followed by a very neat one, bred by Major Ballard, of Cowbridge. Mr. Cockrell had a nice one, and there was some character about Judy. The roadster mares and geldings above fourteen hands one inch, and not over fifteen, were good, Dandy, a cream-coloured one, being a capital mover, with power and fair looks, though a trifle heavy in his shoulder; the second was a cob up to weight, while the reserve number was a rare long-stepping brown cob, whose rider sat back on the saddle without rising, and when the judges sung out to him "Canter!" he, as well as he could with the little wind that was not shaken out of him, hiccuped, "She ca-a-ant." The Hart, a neat hack who has taken a prize or two as a ladies' horse, was out of his class; and Tommy Dodd, a very nice brown cob with three white heels and some fashion, carried off the winning colours in cobs above thirteen hands, with Cwnygro, an old man's weight-carrying cob, second to him, Mr. Perry being commended for another Cymro. Several others were worthy of notice, if not gifted with much fashion. Excepting a few, we were

disappointed with the ponies, as many had shoulders that would have delighted some of the old cart-horse judges, who liked as they said to see the whole weight of a horse thrown forward, and the more tumble-down-dickey he looked, and the nearer his nose was to the ground, the better they loved him, but luckily most of these judges are shelved, at least we should hope so for the sake of progression. The merry going Sir George was the first pony stallion again, as he was at Wolverhampton, Oxford, and Islington, in fact it is *veni, vidi, vici* with him wherever he goes. Certainly he is hard to beat for his inches. But give us the animal behind him if we were lads again for our riding, for here is a racehorse in miniature, half-an-inch under thirteen two, and carrying himself with all the hauteur of an old habitué of the Turf. His forelegs tell tales of galloping; but how clean he is made throughout, how nicely the head is set on, and the neck, shoulder, and coupling of the quarter all glide into one another, while he has arms and thighs as big as any horse's in the yard for his inches. "I would order that weed out," says a dandy loud enough for any one within a stone's throw to hear him; and when Blue Pill does go out we follow him, and find that he is own brother to Chimney Sweep, and consequently a grandson of Chanticleer, from which he takes his colour, and that he has beaten horses across country with eleven stone five up. Cymro is a thickset light chesnut, with a white mane and tail, a shoulder loaded at the point, a middling goer, and the property of the Marquis of Bute. The second, Tramp, is of fair form, which Dick is not, but he is the best mover, and belongs to Rees-David Williams. These were the stallions in the land of the little horses. Barnet fair was wont to be the place to see ponies in the rough, not stuffed; but the world has turned upside down since we were there. Still, surely we have seen this gaudy lass, with the bald face and wall-eye, before! Ah! Kitty, where could it be? What other town could hold such a lass as thee but Birmingham! and in Bingley Hall we have watched your capers in better company, go unrewarded. But keep that quiet, as you are much admired here, and some millionaire may wish to go in for a little notoriety, and take thee for better or worse. Polly of Cardiff is a neat little lass, but with harness shoulders, and a stumpy goer. Flora, with length, was very useful-looking and could move; while the unfortunate Lady Lascelles—all the way from Otley, in Yorkshire—was as lame as a cat, through a severe accident to the off arm. Jenny, not exceeding thirteen hands, was a very clever one; but Polly had a bad shoulder, and we thought the rather cobby Queen Bee, from Manchester, ought to have been before her. Minnie, who we are certain we have seen before, was a really nice pony, with breed, and a good goer; while the cobby little Dandy was a good goer but thick in his shoulder—and wind too, as we thought. This was a class of twenty-one, but with not more than half a dozen worth talking about.

There was a fair show, but not a grand one, of agricultural horses; still there were many of the well known prize winners throughout the country, excepting Suffolks, of which there were only half-a-dozen. But we will take them class by class, commencing with the agricultural stallions as the judges did. Eleven came into the ring and among them one or two light active horses suitable for the country and the work of a Welsh farm; to climb the narrow winding lanes that bind the surrounding hills, for which those great heroes Honest Tom, Young Champion, or Le Bon, are about as fit as the judges would be to go through the performance of a Leotard or Blondin. It is easy to imagine the astonishment of that high spirited and highly respectable farmer, John Jones, on meeting Honest Tom or Young Champion and his attendant trying the ascent of one of these twisting bye-ways

and exclaiming, "In the name of Got, what have you there, man?" If we are to teach people anything we must first study the country we are going into, but three such giants standing before us with the prize colours on in the county of Glamorgan, immediately reminded us of Goldsmith's philosophical vagabond, who started to teach the Dutch English, but when he got there recollected that they must first teach him Dutch. Surely there should have been prizes given for horses suitable for the country, and the little tough Welsh cart-horse is quite as deserving of encouragement as his coarser and softer brethren of the Midland or Eastern Counties, and we must not forget that for our far-famed thoroughbred we are partly indebted to the smaller animal of another country. It was the old story, as at Wolverhampton, Honest Tom, Young Champion, and Le Bon, the only difference here being that Le Bon, the nearest-sized horse for agriculture, took second place instead of third, a verdict we quite agree with, as Young Champion, though improved, is more of a brewer than an agriculturist. Victor, from Knutsford, a well-made black horse, was a fearful waddler in his movements; Calverwell's Excelsior from Abergavenny and Ann Powell's Hero from Monmouth were most active farm-horses. The Monarch, the prize horse of the fourteen two-year-olds not qualified to compete as Clydesdale or Suffolk, is a neat active horse, with something of the Suffolk character at a first glance; the second, Waxwork, a grey, had a weak shoulder, in comparison to other parts of his body; while Montgomeryshire Hero was light and leggy. Lord Churchill was a nice looking horse, but a fumbling goer; Young Lincoln useful, Big Ben remarkable for his height; John Bull active, and Batcock's brown, a very fair horse. The Clydesdale stallions foaled before 1870 made a good class of six, and the sensation one of the cart ring, for the handsome Young Lofty, declared at Wolverhampton to be the best horse in any class, was put on one side as a roarer. This roaring in stallions is a serious and a curious business, too, for had all the stallions in our time been disqualified as getters of stock from roaring, we should not have had Faughaballagh, Irish Birdcatcher, Robert de Gorham, Coronation, The Baron, Stockwell, Rataplan, Christmas Carol, or Laughing Stock; for Sir Hercules was a roarer, and got roarers in our younger days as well as sound horses. Just think for a moment through how many veins the blood of that beautiful headed old roarer runs at the present time, not only in this country but in others, for we are speaking of five-and-thirty years since. If it matters not in a stallion for the fast business, it can be of very little consequence for the slow, and we should recommend the next bench to ponder well before they put on oneside a horse like Young Lofty. For our own part had we a Clydesdale mare we would send her to him in preference to anything in the class. Taking into consideration the places in which horses are housed during the shows—the bog of Wolverhampton, for instance—the only thing that astonishes us is that they are not all roarers, ourselves included. The grey horse, Conqueror, is a powerful, thickset fellow, but not with that beauty and character which we expect to see in a Clydesdale. The Duke is a useful nag, but suffering from a severe cold, which we hope will not lead on to roaring; Young Bobby Burns is a very taking horse with quality; Sir Norman is an active little horse with a tremendous mane, and he might do some service in Wales, as he is for sale. There were three smart two-year-old Clydesdale stallions, but Sir Walter Scott did not remind us of his namesake, of Battersea Park fame. Major Garrett has sold Cupbearer to the Rev. R. A. Westhorp, in Essex, so there were only two aged Suffolk stallions, and Royal Prince, with his present form and action, is a very poor advertisement for the Suffolks, and

should not be allowed to stray from home; but Volunteer is a deep compact horse, and looks more like work than the Prince. There was no opposition in the two-year-olds to a colt by Royal Prince, and there were only a couple of Clydesdale brood mares, Mrs. Muir being a very good specimen, of great character, very deep, on a short leg; while Buntyn was of a much lighter stamp, but still very useful as well as good-looking. Of the two Suffolk brood mares, Gyp was a long way the best, although the second, again, was by no means a bad one. The agricultural mares not Clydesdale or Suffolk were a capital class, with an entry of sixteen, and many nice active mares from the surrounding district, and two well-known from Norfolk and Beds, Beauty and Smart, being conspicuous for their good looks. The agricultural two-year-old fillies not Suffolk or Clydesdale were a capital class, but with not a Welshman among them, the battle being between Honest Lass and Flower, the Cambridge decision being reversed. *The Flower*, not *Flower*, but a Bath and West of England and Windsor heroine, a fine filly, was also showing herself off, as were Sophia Milhouse's *Louisa*, Pilgrim's Princess Royal, T. Brown's bay and chestnut, and Brasington's *Diamond*—all nice fillies. There were two Clydesdale fillies of a fair stamp entered for the three prizes, and one Suffolk for three others, but we don't remember seeing her walk over or on the ground. The two-year-old of Mr. Pilgrim's was good, the second very stylish, and Jacob Lewis' bay had form and could move. *Diamond* is a useful-looking yearling filly, and Mr. Phillimore's *Perfection* of great depth in her middle-piece; while Mr. Harris, of Carmarthenshire, had a compact cobby active little black, suitable for the country, but which stood as much chance of getting a prize from the men in the ring as if he had stuck her on the lighthouse at the Mumbles or Kidwelly Castle. There were some good pairs, Mr. Brierley winning with his well-known horses *Champion* and *Warwick*, Sensation having second place for want of a partner in any way her equal; but the nag ring was cleared, and she was trotted up and down to show her fairy-like action. Rees Williams, of Parkwenydd, Taibach, had a nice pair of agricultural horses, and is now pondering, no doubt, as to what he has gained by sending his light active cart-horses suitable for the country to the Royal Show, and seeing big heavy horses adapted for flat heavy soils receive all the ribbards.

With the companion rings adjoining each other, so able a steward as Mr. Jacob Wilson, earnest, genial, and firm, had the horse classes thoroughly under his command; but it is becoming more and more apparent that the sheep and pigs are beyond any one man's control. On the opening morning the public were roped off the sheep judges, but later in the day there was such a scene as would not have been countenanced at the veriest local meeting. When, for instance, the two judges were engaged over the Oxford Downs, some outsiders, with all the impunity of ignorance, took to handling the sheep at the same time as the judges, and of course freely offering their opinions thereon. So monstrous did this become that, with no one apparently to appeal to, some of the exhibitors themselves ventured to remonstrate, when the offenders merely grinned, and proceeded with their investigations as the sheep were brought out! Then, some smart men of business, who came duly provided in this way, placarded the sheep and pig pens with notices and announcements, to the manifest injustice of others who did not know such a system of advertising was admissible; while one exhibitor, over whose pen of pigs a disqualification card had been fixed, coolly covered it with another stating that the pigs were FOR SALE, so that he got something of a pull from his misadventure. A steward should have a quick eye and a sharp tongue against such tricks as these, but when we

left at mid-day on Wednesday the FOR SALE flags were flying in all directions. Necessarily, if only in common fairness to the general body of exhibitors, the question to be answered is:—Shall anybody placard what he pleases, or shall no notice of any kind be put up, save under the orders of the stewards? The most legitimate form of advertisement to be found on a show-ground is the one adopted here by the Reverend George Inge: in the course of a week or two this gentleman's flock of Leicesters will be sold by auction, and at Cardiff Mr. Inge took the first prize for shearling rams, the first prize for old rams, and the first prize for ewes. And these Leicesters were worthy of their rank; finely-bred, but with substance, firm in their touch, and good in their wool, they stood up and met you as well as they handled. The best old sheep, of capital quality, was a little short forward, and rather lacked the style of Mr. Borton's, a well-known winner, still keeping his touch and his good looks. The Yorkshire flock was also second and fourth amongst the shearlings, with two truly-framed, compact rams, which, with the Thorpe Constantine flock out of the way, will improve on their positions hereafter; while Mr. Teasdale Hutchinson, as usual, shows a very smart stamp of sheep, of good mutton and fine character. Mr. Cresswell and the two Turners were amongst the other exhibitors, Mr. Turner junior apparently not having improved his flock since he has changed over to Northamptonshire. The show of Leicesters was not large, but it was pretty generally good, with the many commendations very properly appended to the more substantial compliments. Again, there was some noticeable improvement, at least numerically, in the entry of Cotswolds, where Glamorganshire made its mark, taking all the prizes for ewes and lambs. Mr. Thomas' ewes are, however, very superior to any of the other pens, which are only moderate; and the first prize lambs, also from St. Hilary, are a long way before the others in competition; the collateral proof thus afforded being satisfactory enough. The first prize shearling ram, also first at Dorchester, is a great massive sheep, not quite right in his shoulders, which do not work freely; while the best old sheep at Wolverhampton, also from the Kilkenny flock, was put out here from standing so badly on his legs, or he might still have been first. Mr. Marham Brown thus comes in with his three-shear, of Lane's blood, third at Wolverhampton and first at Lynn, and a showy sheep out. The other Mr. Browne's third prize depended more on his size than quality, as he was very loose in his flesh; and the second best shearling here was first at Lynn, where he figured as a fairly good sheep. Still, the palmy days of the Cotswolds would seem to have passed away, and but few commendations were elicited at Cardiff, long entries from the same flocks being passed over in significant silence.

The Lincolns well maintain the improved standard they have reached of late, and any criticism would be rather applied to their feeding than breeding. Some of the rams were over-done in this way; but for fine quality of wool the sheep shown by Messrs. Dudding and Mr. Marshall are of remarkable excellence. The Branston best two-shear has, moreover, great size and firm flesh, as a grander Lincoln is not often seen. The successful exhibitors of these sheep included such familiar names and flocks as Wright of Nocton, Pears of Mere, Byron of Kirkby, and Gunnell of Milton, Cambridge, amongst whom sundry other premiums were duly distributed. There were three entries of other longwools in pens of ten ewes with their lambs, where some whitefaced Welsh beat Mr. Wooton's Shire crosses.

Occupying just a single leaf in the catalogue, and so serving as something of a divisional line between the longs and shorts, the Oxfordshire Downs made a very commendable exhibition, although the competition through-

out was confined to half a dozen flocks, three of which are cultivated in Oxfordshire, two in Bedfordshire, and one in Wiltshire. The first and second shearlings were placed precisely as at Dorchester; Mr. Treadwell's ram standing badly on his hind legs, but being otherwise a very good type of the sort; and Mr. Milton Druce's second a particularly clever sheep forward of nice quality, while Mr. Hobbs' third was quite worthy of his place, being quite a taking ram out. The old rams were not so good; the first, the third shearling at Wolverhampton, was well made up, at least for show, but despite his size he looks delicate and stands straight in his shoulders; and the Winchendon three-shear was first at Dorchester. It sounds like a curious fact in the history of show sheep that men who can win with their rams in many cases make little or no mark with their ewes, or *vice versa*, as it is here. In the two classes of rams Mr. Charles Howard could reach no higher than a reserve number, although it is fair to say his sheep were not in high condition, whereas his sweet sorty pen of ewes were not merely the pick and pride of the Oxfordshires, but one of the sights of the show. They go to prove, moreover, how close the flock has been kept to its original standard, not always the case with a new breed, as at the first glance they reminded one of the Bury pen of beauties, now no doubt hung in the gallery of famous ancestors at Biddenham.

"The sale was not altogether unreserved, as there have been retained for further use at Merton, the *first-prize Royal Manchester yearling ram, a son of this ram, and a son of the first-prize yearling ram at the Royal Meeting at Bury St. Edmunds, with a small flock of ewes that have been kept distinct at the Stamford farm*, and as there might have been added the services of John Day, the shepherd, so that it is probable enough we shall soon see the Merton flock figuring again in the prize list." It was thus that we wrote and quoted from the catalogue of Lord Walsingham's sale in the June of last year, but no small surprise was expressed at the remnant of a flock appearing so soon again on the lists. This, however, helped if nothing more to make up something of an entry of Southdowns, which so far as the actual competition went was limited alike in numbers and merits. One of the most rising flocks, that of Sir William Throckmorton, was altogether unrepresented through foot-and-mouth disease; the Heasmans, also from illness, made no sign, and the Goodwood flock, beyond one good old ram, seems to have gone all to pieces. It is said that even the Duke's wide range of pasture is sheep-tainted, and at any rate something has "come over" the ewes, once so beautiful, and now so poor and plain—a very wreck after Oxford. Then, the Merton shearlings, once so invincible, could only claim amongst them one simple commendation, while Mr. Woods' authority as a judge came again to be corrected. At Taunton, two years since, we had to hold him mainly liable as the Southdown man for the mistakes made over Mr. Rigden's sheep; and at Dorchester, a few weeks since, when Mr. Woods was also in office, we wrote thus: "The size of the (Hove) first shearling evidently turned the scale in his favour; for, though a good sheep in many respects, he is not so blood-like, or, in other words, so fine a type of the Southdown as the merely commended ram, and any revision of this award would put the third sheep first, the first second, and the second third, although Mr. Rigden would, we believe, have himself put the last first, and the first last." And at Cardiff two such judges as Mr. Fookes and Mr. Turner put the Dorchester third first, and the first second. The Prince of Wales and Mr. Rigden have also commendations here; but a long way the next best ram is Colonel Kingscote's third prize, an especially smart, stylish sheep, of true Southdown character, from

a Sussex ram of Mr. Hart's breeding. The class of old rams was highly commended, Mr. Rigden again finishing first and second with the same two sheep he won with at Dorchester, in precisely the same positions, as the winner is remarkably handsome and well grown, but with the second is by no means so good, either to the eye or the hand, and it was a very near thing between him and the son of Lord Walsingham's Bury sheep, put third. The Merton ram has far more elegance, and is altogether the better of the two to face; but the judges found fault with his flank, and so put him out. We should add in fairness that we called in on our own account another well-known Sussex judge, Mr. Woodman, who declared the award as recorded to be "right enough." With some stretch of kindness the judges also generally commended the whole class of Southdown ewes, but generally a middling lot, and with Lord Sondes' pen, as usual, of the neatest and truest type; but, "as usual" again, their lack of size stops them, and mere size in a Southdown is commonly achieved at some sacrifice of quality.

The Staffordshire Agricultural Society, which may be regarded as the head-centre of the Shropshires, has this year come to a determination that stock exhibited at the Royal Show shall be thereby disqualified from entry at the country show of the same season! Obviously this very remarkable resolution is calculated to injure alike the national and the local meeting. A man will be less willing to send his animals far away when he sees thereby that he sacrifices his opportunity about home; while of course nothing tends so much to the success of a district exposition as the presence of a few Royal prize-takers, occasionally beaten as they are. If the aim be not to make the Stafford a second-rate meeting, this or some other concomitant cause has conducted to an indifferent display of Shropshire sheep at Cardiff. In fact, we seldom remember a more unsatisfactory tone than was evinced over these classes. Rumour said there were prize sheep with palpable horns and black wool; that the first prize ewes were a pen of odds and ends, two good and three bad; and that the first old ram was quite overdone, a great gulty sheep, which could hardly be regarded as the model of a serviceable ram. Then, to put a climax to all this outcry, the only sheep disqualified by the inspectors were in the Shropshire classes, where the judges had instructions not to look at some sheep from such famous flocks as the Shrawardine and Freeford, Mr. German's shearlings being also put aside, although it will be found Mr. German has already entered a strong protest. Under such untoward circumstances the judges were left to do the best they could, and in a poor class of shearlings they put Lord Chesham's handsome Dorchester sheep first, although he looks almost as much Saxse Down as Shropshire Down. Still, if the ram were eligible it is difficult to see why the Latimer ewes were not also first, as they were equally stylish as well as sorty, and any pen of ewes which are not "much of a muchness" should be put out, or a man had better show one or two instead of five. Mr. Bradburne's ewes did not match, either in heads or frames, and either the second or that very good third pen for first would have been a far more popular decision. Uniformity, however, has not yet been reached with the Shropshires, as in the shearling ram class the second prize was a very different animal from the first—bigger, bolder, and grander, and of a truer Shropshire type. Indeed, but for his horns Mr. Foster's sheep might have been fairly first, and the Shropshires originally were horned sheep. Still, we believe he was only passed with some reluctance from this cause, as Mrs. Beach with one bare-headed sheep, and Mr. Byrd were by no means up to their usual form. Both in this and the old class Mr. Allen showed some

well-bred rams of a very good stamp, but they received no notice, from, as it was said, a dark tinge in their coats. Mr. Mansell's first two-shear was a merely commended shearling at Wolverhampton, since when, though heavier, he has not improved; and the second, from the same flock, a strong upstanding sheep of really masculine character, was infinitely to be preferred, as a model for which the public should be taught to go in an exhibition of breeding animals. One of the great abuses of the day is the system of overdoing rams for sale or show.

The decisions over the Hampshires did not go to "right" Mr. Coles, as the Bulbridge flock took the first and second prizes for shearing rams and also for shearing ewes, Mr. Morrison interfering in the old ram class, where his best, all of Mr. Rawlence's blood, had been the second shearling at Wolverhampton. The other Hampshires, sheep and awards, were mainly after Dorchester. Mr. Mayo was quite invincible with his horned Dorsets, and Mr. Shortreed backed a capital old ram with some beautiful active Cheviot ewes, which might surely drive out the Radnors, whose chief recommendation would look to be their ripe old age. Of the four pens of ewes none were entered as under four years old, and of the five rams one was a five and the other a six-year-old. About Brecon and Kington old mutton has evidently still its value. One of these horned rams, not having received the attention of the veterinary-surgeons, would, from his very uneasy movements in such hot weather, probably have been benefited by a visit from Dr. Erasmus Wilson. However, no one seemed to care much about him, as this might pass as a pretty general commentary over the native breeds, who had few friends beyond an occasional family party who discoursed in a full-flowing, high-sounding tongue, which Sir Roger might have regarded as Greek, but which our own instincts induce us to interpret as Welsh.

Up from Black Prince to Sir Watkin they've seen.

The pig show was almost generally good, as, in places, rather too strong for the judges, who might have done better with the aid of a Berkshire breeder. As it was, the first class of Berkshire boars was generally commended, the younger class officially recorded as *good*, and the Berkshire sows were declared to be an *extraordinary class*. But if the class were entitled to such a compliment the judges themselves were quite as deserving of it, as their doings here were still more extraordinary. For instance, they took as their first prize in this extraordinary class a great, coarse sow, with scarcely anything but her mere size and feeding in her favour. She has a bad head, a bad neck, and a mean drooping quarter. As a specimen of her breed she was one of the plainest sows in her class, as she of course never commanded any notice last year at Wolverhampton, where we find this one word written against her name in our catalogue—*bad*. One of the main reasons given for putting Princess so forward was that some of the others had broken down from over-feeding, although it would be absurd to put the Aylesbury sow into comparison for breeding points with Mr. Stewart's beautiful Duchess, or the Cirencester Stumpy, or the Oxford first prize never noticed here, or my Lord Claremont's really handsome specimens from over the Channel. The decision without the official explanation looks altogether inexplicable. They did better over the boars, at least so far as their best of all went, taking Mr. Humfrey's Dorchester first, which we then recorded as the most promising pig in the show, although afterwards so strangely passed over at Windsor. For second at Cardiff, however, they went for another of Mr. Fowler's sort, a boar beginning with an ugly long, lean head, which should have straightway stopped him; but the Cirencester Lord Liverpool had got "a leg," Mr. Smith's entry was also declared to be crippled, and though the class was com-

mended, it was easily weeded out. The best young Berkshire has great size; Lord Claremont's, on the contrary, was too finely bred; Mr. Smith's pigs were also wanting in Berkshire character, the College entry had not a Berkshire coat, and Mr. Wheeler was disqualified. We doubt if there were a first prize pig in the class, which the judges did *not* generally commend, though they wrote it good—a nice distinction.

Amongst the big white pigs Messrs. Howard's boar and sow never showed to more advantage; but the young boars of a large breed were an indifferent class, or they take more time to furnish, and generally look raw and plain at under a year old; as the first was high, short, and flat-sided. Mr. Eden's first-prize large sow was backed by a capital litter, which possibly served to put her before the Bedford Duchess, and the argument is legitimate enough. But the strength of the whites centred in the two classes of small boars, where Mr. Eden's breed took all the four prizes, with three of these of just the same nice stamp. With beautiful heads and collars, and capital curly but still fine coats, they are all of a family; Mr. Eden's and Mr. Royd's boars being both by Young King out of Sisters to Prince and Young Prince, and the best boar in the younger class being also out of a Young Prince sow, but bred terribly in-and-in. These are of what was known as "the Solway" breed, improved by Mr. Watson, but the second-prize young boar hardly looks of the same stamp. In the middle breeds, again, Mr. Eden's success was as remarkable, Mr. Royd's boar having been bred at Salford, while Busy Bee, the best sow, has now been first three years in succession, at Oxford, Wolverhampton, and Cardiff. The second-prize middle breed boar was a kind of Essex cross of no great merit, as the Messrs. Duckering quite lost their lead, with some of their entries disqualified. Amongst the small black breeds Mr. Mumford Sexton had some remarkable success, taking three first and two second prizes in four classes, facts which should go to make his the best breed of the kind about, and a capital prologue to his coming sale in September of 150 pigs. Exhibitors, however, must be content to let the story of one meeting speak for itself, or the placard system will lead to utter confusion; and any new steward here must be prepared to exercise an "iron rule."

PRIZE LIST.

HORSES.

(All ages calculated to July 1st, 1872.)

JUDGES—RIDING HORSES:

J. Atkinson, Brandon, Alnwick.
Major Barlow, Hasketon, Woodbridge.
C. M. Nainby, Barnoldby-le-Beck, Grimsby.

CART HORSES:

H. Biddell, Playford, Ipswich.
B. Spraggon, Nafferton, Stocksfield-on-Tyne.
J. H. Wood, Humberstone, Great Grimsby.

Agricultural Stallion, foaled before 1st January, 1870 (not qualified to compete as Clydesdale or Suffolk).—First prize, £25, the Fyde Cart-Horse Breeding Improvement Company, Singleton, Poulton-le-Fyde (Honest Tom); second, £15, C. Sharpley, Kelstern Hall, Louth (Le Bon); third, £5, T. Statter, jun., Stand Hall, Whitefield, Manchester (Young Champion). Reserve and Commended: J. How, Denver, Downham Market (Farmer's Glory).

Agricultural Stallion, foaled in 1870 (not qualified to compete as Clydesdale or Suffolk).—First prize, £20, F. T. Bryan, Humberstone, Leicester (The Monarch); second, £10, J. A. Summer, Debdale Farm, Mansfield (Waxwork); third, £5, W. Davis, Mardu Llandrinio, Oswestry (Montgomeryshire Hero). Reserve and Commended: G. Jones, Sion, Downham Market, Norfolk (Lyon).

Clydesdale Stallion, foaled before 1st January, 1870.—First prize, £25, R. Orange, Bedlington, Morpeth (Conqueror); second, £15, E. and A. Stanford, Eatons, Ashurst, Steyning, Sussex (The Duke); third, £5, T. Statter, jun., Stand Hall (The Black Prince).

Clydesdale Stallion, foaled in 1870.—First prize, £20, G. and

W. H. Botham, Wexham Court, Slough (Bucks Hero): second, £10, T. Statter, jun., Stand Hall, Whitefield, Manchester (Sir Walter Scott).

Suffolk Stallion, foaled before 1st January, 1870.—First prize, £25, C. Boby, Alton Hall, Stutton, Ipswich (Royal Prince); second, £15, W. Byford, The Court, Glemsford, Suffolk (Volunteer).

Suffolk Stallion, foaled in 1870.—First prize, £20, C. Boby, Thoroughbred Stallion, for getting Hunters.—First prize, £50, J. Moffat, Kirklington Park, Carlisle (Laughing Stock); second, £25, J. Rees, Llanboidy, Whitland, Carmarthen (Christmas Carol); third, £10, Major J. Simpson Ballard, The Verlands, Cowbridge, Glamorgan (Reinfrid). Reserve: W. T. Sharpe, Faumber Park, Horncastle (Suffolk).

Stallion above fourteen hands, but not exceeding fifteen hands two inches, suitable for getting hackneys.—First prize, £20, B. Balderston, Mount Pleasant, Sibsey, Boston (Norfolk Hero); second, £10, J. Lockhart, Culmington, Bromfield, Salop (Dick Turpin); third, £5, J. Langley, Shirenewton, Chepstow (Telegram). Reserve: W. Griffith, Ely Common, Cardiff (Ancient Briton).

Pony Stallion, not exceeding fourteen hands high.—First prize, £15, H. Roundell, Odey (Sir George); second, £10, T. L. Brewer, Danygraig, Newport, Monmouth (Blue Pill).

Pony stallion, not exceeding thirteen hands.—First prize, £15, The Marquis of Bute, Cardiff Castle (Cymro); second, £10, J. A. Doyle, Plas-Dulas, Abergelle, Denbighshire (Tramp).

Agricultural Mare, in foal, or with foal at foot (not suitable to compete as Clydesdale or Suffolk).—First prize, £20, E. Crowe, Denver, Downham Market (Smart); second, £10, F. Street, Harrowden, Bedford (Beauty); third, £5, J. Lamb and J. Cooper, Bowstead, Penrith. Reserve: W. Frees, Underhill, Bridgford (Lotly).

Clydesdale Mare, in foal, or with foal at foot.—First prize, £20, T. Statter, jun. (Mrs. Muir); second, £10, R. Thomas, Upper Court, Taibach, Glamorgan (Buntyn).

Suffolk Mare, in foal, or with foal at foot.—First prize, £20, R. Capon, Dennington, Wickham Market (Gyp); second, £10, J. J. Stone, Scyborwen, Llantrissant, Newport (Garnet). Mare, in foal, or with foal at foot, suitable for breeding hunters.—First prize, £25, W. S. Cartwright, Newport, Monmouthshire (Fairminster); second, £15, T. Fox, Avenham Hall, Poulton-le-Fylde (Pink); third, £5, J. T. Robinson, Lockby Palace, Asenby, Thirsk (Go-a-Head). Reserve and Commended: T. Williams, Allbrightley, Battlefield, Shrewsbury (Alice). Commended: W. R. H. Powell, Maesgwynne, Whitland, Carmarthen (Mrs. Evans).

Mare, above fourteen hands, and not exceeding fifteen hands one inch, in foal, or with foal at foot, suitable for breeding Hackneys.—First prize, £20, A. Sherratt, Holdberry Farm, Oclepitichard, Hereford (Polly); second, £10, A. Watts, New House, Coity, Bridgend (The Rosy Morn); third, £5, T. Tones, Cross Lane Head, Bridgnorth (Judy). Reserve: T. Goddard, Greenwood, St. Fagans, Cardiff (Finale).

Pony Mare, not exceeding fourteen hands.—First prize, £10, W. Coates, Scarborough Farm, Winchcombe (Kitty); second, £5, G. S. Worthington, Cardiff (Polly). Reserve and Highly Commended: W. M. Spence, Odey, Yorkshire (Lady Lascelles). Commended: J. Williams, Caerady, Cowbridge (Flora); J. B. Fowler, Ovington Down, Alesford (Topsy).

Pony Mare, not exceeding thirteen hands.—First prize, £10, W. Allen, Vaindre Hall, Cardiff (Jenny); second, £5, R. Travell, Mount Stuart Hotel, Cardiff (Polly). Reserve and Highly Commended: T. Statter, jun. (Queen Bee).

Welsh Pony, not exceeding thirteen hands.—First prize, £10, J. Thomas, Cardiff (Minnie); second, £5, H. Bowen, Spring Bank, Cardiff (Dandy). Reserve and Highly Commended: W. Allen, Vaindre Hall, Cardiff (Rufus). Highly Commended: W. H. Mathias, Porth, Pontypridd (Little Gipsy). Commended: D. Howell, Womanby Street, Cardiff (Jenny).

Agricultural Filly, two years old (not qualified to compete as Clydesdale or Suffolk).—First prize, £15, H. Purser, Wellington, Bedford (Honest Lass); second, £10, E. Crowe, Denver (Flower); third, £5, G. Street, Maulden, Amptill. Reserve and Highly Commended: S. Millhouse, Hinckley (Louisa). Commended: T. Brown, Marham Hall, Downham Market.

Clydesdale Filly, two years old.—Prize, £15, G. Hampton, North End, Findon, Sussex (Blue Bell).

Hunter up to not less than fifteen stone.—First prize, £20, F. B. Jones, Westall Court, Cheltenham; second, £10, G. W. G. Thomas, The Heath, Cardiff (Iris); third, £5, Major J. S. Ballard, The Verlands, Cowbridge (Redwing). Reserve: The Hon. J. Jocelyn Bourke, Buckingham Vale, Clifton (The Colonel).

Hunter up to not less than twelve stone.—First prize, £20, A. Darbey, Stanley Hall, Bridgnorth (General Hood); second, £10, H. Howell, Coates, Cirencester (Lancer); third, £5, F. E. Stacey, Llandough Castle, Cowbridge (Bianchi). Reserve: C. B. Mansfield, Llysonen, St. Clears (The Lamb).

Hunter, four years old.—First prize, £20, C. Cook, Taddington, Winchcombe (Admiral); second, £10, J. Moffat, Kirklington (Lady Graham); third, £5, D. H. Thomas, Derllys

(Policeman). Reserve: J. W. Teasdale, Poyerston, Pembroke (Theodore).

Hunter, three years old.—First prize, £20, J. M. T. Musgrave, Beverley (Honeycomb); second, £10, T. H. Miller, Singleton, Poulton-le-Fylde (Kettledrum); third, £5, H. G. Allen, St. James's Street, London (Cape Horn). Reserve: L. Jenkins, Tynycad, Bridgend (Sawara).

Hunter, by a thorough-bred Horse, two years old.—First prize, £10, T. H. Miller (Singleton); second, £5, L. and H. Thomas, Tydraw, Llantrithyd. Reserve: R. A. College Farm, Cirencester.

Hunter, one year old, by a thorough-bred Horse.—First prize, £10, T. H. Miller (Victor); second, £5, J. Evans, Pengam House, Cardiff (Black Bess). Reserve: E. and A. Stanford (Sabina).

Roadster, above fourteen hands one inch, and not exceeding fifteen hands.—First prize, £15, T. Goddard, The Greenwood, St. Fagans, Cardiff (Dandy); second, £10, B. G. D. Cooke, Colomendy, Mold, Flintshire (General). Reserve: T. Statter, jun.

Cob, above thirteen hands, and not exceeding fourteen hands one inch.—First prize, £15, F. E. Stacey, Llandough Castle, Cowbridge (Tommy Dodd); second, £10, W. Harrys, Canton, Cardiff (Gwmyro). Reserve and Highly Commended: W. Nicks, Greville House, Gloucester (Gaylad). Commended: C. Francis, Venny Vach, Brecon; T. George, Deri, Whitchurch, Cardiff; E. Davies, Cowbridge (Toddy); J. H. Perry, Cardiff (Cymro).

Agricultural Mare or Gelding, three years old.—First prize, £10, T. T. Parker, Charnock, Chorley (Princess); second, £5, J. Perry, Salter's Hall, Claverley, Bridgnorth (Captain). Reserve and Commended: R. W. Bridgwater, Great Porthamal, Talgarth (Matchless). Commended: T. Brown, Marham (Captain).

Agricultural Mare or Gelding, two years old.—First prize, £10, S. C. Pilgrim, The Outwoods, Hinckley; second, £5, T. W. D. Harris, Wootton, Northampton. Reserve and Commended: J. Lewis, Radyr, Cardiff. Commended: W. Lowrie, Old Mill, Cardiff (Farmer).

Agricultural Mare or Gelding, one year old.—First prize, £10, P. Street, Harrowden (Diamond); second, £5, E. Phillimore, Prestbury, Cheltenham (Perfection).

Agricultural Pair of Geldings or Mares, of any age.—First prize, £20, C. W. Brierley, Rhodes House, Manchester (Champion and Warwick); second, £10, C. W. Brierly (Sensation and Flirt). Reserve and Highly Commended: T. Statter, jun.

Pair of Draught Geldings or Mares, for underground purposes, not exceeding fifteen hands high.—First prize, £20, T. Statter, jun. (Bobby and Bonny).

CATTLE.

SHORTHORNS.

JUDGES.—H. Aylmer, West Dereham Abbey, Stoke Ferry.

G. Drewry, Holker Grange, Lancashire.

N. Milne, Faldonside, Melrose.

Bull above three years old.—First prize, £30, J. Onthwaite, Baines, Cattarick (Royal Windsor); second, £20, W. Linton, Sheriff Hutton, York (Lord Irwin); third, £15, J. C. Bowstead, Hackthorpe Hall, Penrith (Flag of Britain); fourth, £10, Lieutenant-Colonel Loyd Lindsay, V.C., M.P., Locking Park, Wantage (Lord Napier). Reserve and Highly Commended: J. Cooke, Ballynall House, New Ross, Kilkenny (St. Ringan). Highly Commended: Earl Cawdor, Stackpole Court, Pembroke (Sea Serpent); Rev. W. Sneyd, Keele Hall, Newcastle-under-Lyne (Ironmaster).

Bull above two and not exceeding three years old.—First prize, £25, J. Lamb, Burrell Green, Penrith (Ignoramus); second, £15, G. Garne, Churchill Heath, Chipping Norton (Earl of Warwickshire Third); third, £10, C. W. Brierley (Prince Charlie); fourth, £5, J. Stratton, Alton Priors, Marlborough (Master Glanville). Reserved and Highly Commended: R. Stratton, The Duffryn, Newport, Monmouthshire (Sauntur). Highly Commended: Rev. W. Sneyd (Lord of the Manor); W. H. Hewitt, Norton Court, Taunton (Crown Prince).

Yearling Bull, above one and not exceeding two years old.—First prize, £25, W. Linton (Leeman); second, £15, A. H. Browne, Bank House, Ackington (Duke of Aosta); third, £10, Col. Towneley, Towneley (Baron Colling 2nd); fourth, £5, Col. Towneley (Kenelm Butterfly). Reserve and Highly Commended: Lieut.-Col. Loyd Lindsay, V.C., M.P. (Magdala).

Bull Calf, above six and not exceeding twelve months old.—First prize, £15, Lady Pigot, Branches Park, Newmarket (Rapid); second, £10, Colonel C. Towneley (Hubback, Jun.); third, £5, J. K. Fowler, Aylesbury (Royal Geneva). Reserve and Highly Commended: J. Williams, Llantrithyd, Cowbridge (Llantrithyd). Highly Commended: Lord Sudeley, Toddington, Winchcombe (Cherub Third); Colonel C. Towneley (Oxford Gwynne); the Hon. J. Massey, Mildford House, Limerick (Forester); Earl Cawdor, Pembroke (Earl of Clarence).

Cow above three years old.—First prize, £20, A. H. Browne, Acklington (Primrose); second, £10, W. H. Hewett, Norton Court (Nelly); third £5, G. Garne (Princess Alexandra). Reserve and Highly Commended: C. A. Barnes, Charleywood, Rickmansworth (English Emily). Commended: R. Stratton, The Duffryn, Newport (Flower Girl); W. Bradburn, Wednesfield, Wolverhampton; T. Statter, Jun. (Countess).

Heifer in-milk or in-calf, not exceeding three years old.—First prize, £15, T. Statter, Jun. (Lady Dodona); second, £10, H. F. Smith, Lamwath House, Sutton, Hull (Lamwath Violet); third, £5, Colonel C. Towneley (Baron Oxford's Duchess). Reserve and Highly Commended: J. J. Stone, Scyborwen, Llantrissant, Newport (Stuart Duchess Third). Commended: J. Garsed, The Moorlands, Cowbridge (Blonde); J. Stratton (Innocence); T. Garne and Son, Broadmoor (Malmsey); and G. Garne (Lady Bird).

Yearling Heifer, above one and not exceeding two years old.—First prize, £15, Colonel C. Towneley (Oxford Beauty); second, £10, J. Stratton (Village Rose); third, £5, Colonel C. Towneley (Butterfly's Memento Third). Reserve and Highly Commended: J. Stratton (Mabel). Highly Commended: Lady E. Pigot (Victoria Vixen); G. Garne (Butterfly's Duchess); W. Tennant, White House, Barlow, Selby (Parting Rose); Colonel C. Towneley (Duchess Eleventh). Commended: A. Garth, Scotchorn, Lincoln (Brilliant Rose); J. W. Wilson, Austin House, Broadway, Worcester (Princess Killerby); Lady E. Pigot (Scintilla); J. J. Stone, Scyborwen (Rose Second).

Heifer Calf, above six and under 12 months old.—First prize, £10, R. J. M. Gumbleton, Glanatore, Curryglass, Waterford, Ireland (Emma Courtoun); second, £5, Rev. W. Sneyd (Hollyberry). Reserve and Highly Commended: T. Garne and Son (Pink). Highly Commended: Lady E. Pigot (Rose of Wytham); Colonel C. Towneley (Oxford's Duty); T. Garne and Son (Maid of Honour). Commended: T. Statter, Jun. (Rosabina).

HEREFORDS.

JUDGES.—R. Bach, Elsiech House, Bromfield, Salop.

E. Bradley, Cowbridge.

H. Haywood, Blakemere House, Hereford.

Bull, above three years old.—First prize, £25, T. Fenn, Stonebrook House, Ludlow, and J. Harding, Bicton House, Shrewsbury (Bachelor); second, £15, P. Turner, The Leen, Pembridge (Provost); third, £5, R. Hill, Orleton Court, Ludlow (Stout). Reserve and Commended: Lieut.-Colonel R. Feilden, Dulas Court, Hereford (Dulas). Commended: W. Badham, Arkstone Court, Hereford (Standard Bearer).

Bull, above two and not exceeding three years old.—First prize, £25, J. E. Spencer, Lancade, Cowbridge (Von Moltke); second, £15, E. Lester, Cefn Ila, Usk (Chanter); third, £5, R. Edwards, Trevern Hall, Welshpool (Emstrey). Reserve and Commended: R. Keene, Penycraige, Caerleon (Tredgar).

Yearling Bull, above one and not exceeding two years old.—First prize, £25, W. Taylor, Showle Court, Ledbury (The Cheltenham Boy); second, £15, J. Harding, Bicton, Shrewsbury (Lord Battenhall); third, £5, Her Majesty the Queen Windsor Castle (Prince Joachim). Reserve and Commended: W. Tudge, Adforton, Leintwardine (Vespasian). Commended: R. Tanner, Frodesley, Dorrington (Frodesley 3rd).

Bull-Calf, above six and not exceeding twelve months old.—First prize, £10, T. Fenn (Cop Hall); second, £5, W. Tudge (Regulus). Reserve and Highly Commended: Her Majesty the Queen (Marquis of Lorne). Highly Commended: W. Taylor (Triumph the 4th). Commended: T. Fenn (King Severus); R. Hill (Grateful); W. Tudge (Cincinnatus); T. Rogers, Coxall, Brampton Brian (Zocco); R. Tanner (Fanciful).

Cow, above three years old.—First prize, £20, W. B. Peren, Compton House, South Petherton (Ivington Rose); second, £10, T. Rogers (Silk 2nd); third, £5, R. Tanner, (Lady Milton). Reserve: T. Fenn (Duchess of Bedford 6th). The class highly commended.

Heifer in-Milk or in-Calf, not exceeding three years old.—First prize, £15, T. Thomas, St. Hilary, Cowbridge (Sunflower); second, £10, P. Turner (Plum); third, £5, T. Thomas (Lizzie 2nd). Reserve and Highly Commended: T. Thomas (Countess). Commended: E. Lester (Songstress); H. J. Bailey, Rosedale, Tenbury (Rosa Lee); W. Evans, Llandowlais, Usk (Fairlass); W. Tudge (Bonnie Belle).

Yearling Heifer, above one and not exceeding two years old.—First prize, £15, T. Thomas (Rosaline); second, £10, J. Morris, Town House, Madley (Madeline); third, £5, T. Fenn (Lady of the Teme). Reserve and Highly Commended: W. B. Peren (Belle of the West). Commended: Her Majesty the Queen (Adelaide 2nd); W. Tudge (Czarina).

Heifer-Calf, above six and under twelve months old.—First prize, £10, P. Turner (Ruby); second, £5, H. J. Bailey (Lady Alice). Reserve and Highly Commended: T. Fenn (Queen of the Teme). Highly Commended: T. Rogers (Silverdrop); and T. Rogers (Silver Chain). Commended: J. Harding (The Bicton Belle); E. Lester (Dorothy); P. Turner (Exquisite).

DEVONS.

JUDGES.—T. Pope, Horningsham, Warminster.

R. Woodman, Southcase, Lewes.

Bull, above three years old.—First prize, £25, J. Davy, Fliton Barton, North Molton (Duke of Fliton 5th); second, £15, Viscount Falmouth, Tregothnan, Probus (Jonquil).

Bull, above two and not exceeding three years old.—First prize, £25, W. Farthing, Stowey Court, Bridgwater (Master Harry); second, £15, Viscount Falmouth (Kincraft); third, £5, Viscount Falmouth (Cinnamon). Reserve and Highly Commended: J. Jackman, Hexworthy, Launceston (Earl of Hexworthy).

Yearling Bull, above one and not exceeding two years old.—First prize, £25, J. Davy (Duke of Fliton 8th); second, £15, J. Jackman (Earl of Exeter); third, £5, Her Majesty the Queen (Prince Imperial). Reserve and Highly Commended: Viscount Falmouth (Gipsy King). Commended: J. H. Buller, Downes, Crediton.

Bull-Calf, above six and not exceeding twelve months old.—First prize, £10, J. Davy (Duke of Fliton 9th); second, £5, W. Farthing. Reserve and Highly Commended: J. A. Smith, Bradford Peverell, Dorchester (Duke of York). Commended: J. Jackman (Earl of Hexworthy 2nd).

Cow, above three years old.—First prize, £20, J. A. Smith (Picture); second, £10, J. Davy (Tempress 2nd). Reserve and Highly Commended: Rev. A. Morgan, Machen Rectory, Newport.

Heifer in-milk or in-calf, not exceeding three years old.—First prize, £15, J. Davy (Gay Lass); second, £10, J. A. Smith (Picture). Reserve and Highly Commended: W. Farthing.

Yearling Heifer, above one and not exceeding two years old.—First prize, £15, W. Farthing (Fair Rosamond); second, £10, T. Lee Senior, Broughton, Aylesbury (Lady Edith); third, £5, J. Davey (Actress 6th). Reserve and Highly Commended: J. A. Smith (Daisy).

Heifer Calf, above six and under twelve months old.—First prize, £10, J. A. Smith (Picture); second, £5, T. L. Senior (Lady Maude). Reserve and Highly Commended: J. H. Buller.

JERSEY.

JUDGES.—H. Middleton, Cuteslowe, Oxford.

H. Tait, The Prince Consort's Shaw Farm, Windsor.

Bull above one year old.—First prize, £10, Lord Chesham, Latimer, Chesham; second, £5, W. Gilbey, Hargrave Park, Stanstead (Don). Reserve: G. Simpson (Favourite).

Cow above three years old.—First prize, £10, W. Gilbey (Milkmaid); second, £5, G. Simpson (Wild Eyes). Commended: P. Gaudin, Spring Farm, St. Martin's, Jersey (Lady Light and Fanny Brown). Reserve and Commended: G. Simpson (Duchess).

Heifer in-milk or in-calf, not exceeding three years old.—First prize, £10, G. Simpson (Queenie); second, £5, W. Gilbey (Bel). Reserve and Highly Commended: R. Rendle, Cotel Farm, Guernsey. Highly Commended: T. Tones, Cross Lane Head, Bridgworth (Filby); H. Dennis de Vitre, Charlton House, Wantage, Berks (Sibbyl). Commended: R. Rendle (Lady Elizabeth).

GUERNSEY.

JUDGES.—(As for Jerseys).

Bull above one year old.—Prize of £10, C. Le Page, Les Naftiaux, Guernsey (Billy).

Cow above three years old.—First prize, £10, R. Rendle (Duchess); second, £5, C. Le Page (Betty). Reserve and Highly Commended: C. Le Page (Moor Hen). Highly commended: Rev. J. R. Watson, La Favorita, Fermain, Guernsey (Placida).

Heifer in-milk or in-calf, not exceeding three years old.—First prize, £10, R. Rendle (Lady Jane); second, £5, T. B. Le Page, Maison de Bas, St. Andrew's, Guernsey (Lucy). Reserve: Rev. J. R. Watson (Ophire). Highly Commended: T. B. Le Page (Primrose); C. Le Page (Blue Bell).

WELSH BREEDS.

(Including the Castle Martin Breed).

JUDGES.—(As for Herefords).

Bull, three years old or more.—First prize, £15, W. Jenkins, Glanwern, Talsarn, Cardigan (Aeronian—Castle Martin); second, £10, H. Davies, Typicca, Dryslwyn, Carmarthen (Castle Martin). Reserve and Highly Commended: D. Lewis, Walton East, Haverfordwest (Walton).

Bull, between two and three years old.—First prize, £15, J. B. Bowen, Llwyngwair, Pembroke (Black Prince); second, £10, R. Humphreys, Beddgelert. Reserve and Commended: T. Harries, Llandilo, Abercromby (Tom—Castle Martin).

Yearling Bull.—First prize, £15, J. D. Morse, Glandawke, St. Clears (Taroo—Castle Martin); second, £10, Major J. H. Heyward, Crosswood, Welshpool, Montgomery (365—Montgomeryshire). Reserve and Highly Commended: Major J.

H. Heyward (384—Montgomeryshire). Commended: Major J. H. Heyward (388—Montgomeryshire).

Heifer of between two and three years old.—First prize, £15, R. Humphreys; second, £10, T. Evans, Llwyngrawys, Cardigan (Laurie—Castle Martin). Reserve and Commended: R. Humphreys.

Yearling Heifer.—Prize of £15, J. B. Bowen (Laurie 3rd—Anglesea).

CASTLE MARTIN BREED.

JUDGES.—(As for Herefords).

Pair of Cows, over three years, in-milk or in-calf.—First prize, £15, W. B. Roberts, Loveston, Pembroke (Blossom and Mayflower); second, £10, H. Harries, Vaynor, Narberth (Mary Ann and Fanny). Reserve and Commended: H. Davies (Victoria and Queen).

OTHER ESTABLISHED BREEDS.

(Not including the Shorthorn, Hereford, Devon, Jersey, Guernsey, or Welsh Breeds).

JUDGES.—(As for Devons).

Bull above one year old.—First Prize, £10, Lord Sondes, Elmham Hall, Thetford (Norfolk); second, £5, J. J. Colman, M.P., Carrow House, Norwich (Cherry Duke—Norfolk).

Cow above three years old.—First prize, £10, Lord Sondes (Norfolk); second, £5, R. H. Chapman, Upton, Nuneaton (Ivanhoe—Longhorn).

Heifer in-milk or in-calf, not exceeding three years old.—First prize, £10, Lord Sondes (Norfolk); second, £5, Lord Sondes (Norfolk). Reserve and Highly Commended: R. H. Chapman (Rolbright—Longhorn). Commended: R. H. Chapman (Lady Cropredy—Longhorn).

Bull, Cow, and their Offspring, of any pure breed.—Prize of £20, W. Evans, Llandowlaia, Usk, Monmouth (Monaghty 3rd and Damsel 3rd)—Hereford.

DAIRY CATTLE.

JUDGES.—(As for Devons).

Pair of Cows, over three years and eight months old, in-milk.—First prize, £15, J. Williams, Llantrithyd, Cowbridge (Blanche and Pearl—Shorthorns); second, £10, J. E. Spencer, Llandcadle (Beauty and Princess of Wales—Herefords); third, £5, W. Bradburn (Miss Valentine—Shorthorn, and Oxley—nearby Shorthorn). Reserve and Highly Commended: T. Statter, jun. (Beauty and Buttercup—Ayrshires).

SHEEP.

LEICESTERS.

JUDGES.—E. Riley, Kipling Cote Farm, Hull.

W. Torr, Aylesby Manor, Great Grimsby.

Shearling Ram.—First prize, £20, Rev. G. Inge, Thorpe Constantine, Tamworth; second, £10, J. Borton, Barton, Barton-le-street, Malton; third, £5, T. H. Hutchinson, Manor House, Catterick. Reserve and Highly Commended: J. Borton. Highly Commended: R. W. Creswell, Ravenstone, Ashby-de-la-Zouch; G. Turner, Bramford Speke, Exeter. Commended: T. H. Hutchinson.

Ram of any other age.—First prize, £20, Rev. G. Inge; second, £10, J. Borton; third, £5, G. Turner. Reserve and Highly Commended: J. Borton. Highly Commended: R. W. Creswell. Commended: T. H. Hutchinson.

Pen of five Shearling Ewes.—First prize, £15, Rev. G. Inge; second, £10, T. H. Hutchinson. Reserve and Highly Commended: J. Borton. Commended: G. Turner.

COTSWOLDS.

JUDGES.—W. J. Edmonds, Southrope, Lechlade.

R. J. Newton, Campfield, Woodstock.

Shearling Ram.—First prize, £20, the Executors of the late T. Gillett, Kilkeny Farm, Faringdon; second, £10, T. Brown, Marham, Dowlham Market; third, £5, T. Brown. Reserve and Highly Commended: T. Brown. Commended: T. Brown.

Ram of any other age.—First prize, £20, T. Brown; second, £10, the Executors of the late T. Gillett; third, £5, T. B. Browne, Salperton. Reserve and Highly Commended: T. Brown.

Pen of five Shearling Ewes.—First prize, £15, T. Thomas, St. Hilary; second, £10, C. Spencer, Gileston; third, £5, J. Walker, Northleach. Reserve and Commended: M. Godwin, Troy Farm, Deddington.

Pen of five Ram Lambs.—First prize, £15, T. Thomas; second, £10, C. Spencer. Reserve: J. Williams, Caercady, Cowbridge.

LINCOLNS.

JUDGES.—C. Clarke, Scopwick, Sleaford.

H. Mackinder, Langton Grange, Spilsby.

Shearling Ram.—First Prize, £20, W. and H. Dudding, Pantown House, Wragby; second, £10, R. Wright, Nocton Heath, Lincoln; third, £5, J. Pears, Mere, Lincoln. Reserve and Highly Commended: W. and H. Dudding.

Ram of any other age.—First prize, £20, W. F. Marshall, Branston, Lincoln; second, £10, R. Wright; third, £5, J.

Pears. Reserve and Highly Commended: W. F. Marshall. Commended: W. F. Marshall.

Pen of five Shearling Ewes.—First prize, £15, J. Pears; second, £10, J. Byron, Sleaford. Highly Commended: T. Gunnel, Milton, Cambridge. Commended: R. Wright.

LONGWOOLS.

JUDGES.—(As for Lincolns).

Pen of ten Ewes, with their Lambs, of any longwool breed.—First prize, £10, J. Williams; second, £5, T. W. D. Harris, Wootton.

OXFORDSHIRE DOWNS.

JUDGES.—(As for Cotswolds).

Shearling Ram.—First prize, £20, J. Treadwell, Upper Winchendon, Aylesbury; second, £10, A. F. M. Druce, Twelve Acres, Eynsham; third, £5, C. Hobbs, Maisey Hampton, Cricklade. Reserve and Highly Commended: J. Treadwell. Commended: C. Howard, Biddenham, Bedford; C. Hobbs.

Ram of any other age.—First prize, £20, G. Wallis, Old Shifford, Faringdon; second, £10, J. Treadwell; third, £5, F. Street, Harrowden. Reserve and Highly Commended: C. Howard. Highly Commended: G. Wallis; J. Treadwell.

Pen of five Shearling Ewes.—First prize, £15, C. Howard, Biddenham; second, £10, A. F. M. Druce. Reserve and Highly Commended: F. Street.

SOUTHDOWNS.

JUDGES.—H. Fookes, Whitechurch, Blandford.

J. S. Turner, Chyngton, Seaford, Sussex.

Shearling Ram.—First prize, £20, W. Ridgen, Hove, Brighton; second, £10, W. Ridgen; third, £5, Colonel R. N. F. Kingscote, M.P., Kingscote, Wotton-under-Edge. Reserve and Highly Commended: His Royal Highness the Prince of Wales, K.G., Sandringham, King's Lynn. Highly Commended: W. Ridgen. Commended: Lord Walsingham, Merton Hall, Thetford; Colonel R. N. F. Kingscote, M.P.

Ram of any other age.—First prize, £20, W. Ridgen; second, £10, W. Ridgen; third, £5, Lord Walsingham. Reserve and Highly Commended: The Duke of Richmond, K.G., Goodwood, Chichester. Highly Commended: His Royal Highness the Prince of Wales; H. S. Waller, Farmington, Northleach. The class commended.

Pen of five Shearling Ewes.—First prize, £15, Lord Walsingham; second, £10, Lord Sondes, Elmham Hall, Thetford; third, £5, J. J. Colman, M.P., Carrow House, Norwich. Reserve and Highly Commended: His Royal Highness the Prince of Wales. The class commended.

SHROPSHIRE.

JUDGES.—W. K. Bourne, Fisherwick, Lichfield.

W. Henderson, Fowberry Mains, Belford.

R. H. Masten, Pendeford, Wolverhampton.

Shearling Ram.—First prize, £20, Lord Chesham, Latimer; second, £10, W. O. Foster, Apley Park, Shifnal; third, £5, J. Evans, Uffington, Shrewsbury. Reserve and Highly Commended: S. Beach, The Hattons, Breewood. Commended: T. Fern, Stonebrook House; F. Mansell, Adcott Hall, Baschurch, Salop; S. Beach; C. Byrd, Litleywood, Stafford.

Ram of any other age.—First prize, £20, T. Mansell; second, £10, T. Mansell; third, £5, S. Beach. Reserve and Highly Commended: Lord Chesham. Highly Commended: J. Coxon.

Pen of five Shearling Ewes.—First prize, £15, J. H. Bradburne, Pipe-place, Lichfield; second, £10, Lord Chesham; third, £5, J. Evans. Reserve and Highly Commended: S. Beach. Highly Commended: W. O. Foster; M. Williams, Dryton, Wroxeter, Shrewsbury, Salop; J. H. Bradburne. The class commended.

HAMPSHIRE AND OTHER SHORT-WOOLS.

(Not qualified to compete as Southdowns or Shropshires.)

JUDGES.—(Same as for Southdowns.)

Shearling Ram.—First prize, £20, J. Rawlence, Bulbridge, Wilton, Salisbury; second, £10, J. Rawlence; third, £5, R. Coles, Middleton, Norton Barent, Warminster. Reserve and Commended: R. Coles.

Ram of any other age.—First prize, £20, A. Morrison, Fonthill House, Tisbury; second, £10, J. Rawlence; third, £5, A. Morrison. Reserve and Commended: T. C. Saunders, Watercombe.

Pen of five Shearling Ewes.—First prize, £15, J. Rawlence; second, £10, J. Rawlence. Reserve and Commended: T. C. Saunders.

DORSET.

JUDGES.—(Same as for Southdowns.)

Shearling Ram.—First prize, £10, H. Mayo, Cokers Frome, Dorchester; second, £5, H. Mayo.

Ram of any other age.—First prize, £10, H. Mayo. Reserve and Highly Commended: H. Mayo.

Pen of five Shearling Ewes.—First prize, £10, H. Mayo; second, £5, H. Mayo. Reserve and Commended: J. Culver-

well, Clavelshay, North Petherton. Commended: Viscount Bridport, Cricket St. Thomas.

CHEVIOTS.

JUDGES.—(Same as for Shropshires.)

Shearling Ram.—First prize, £10, J. Robson, Bymess, Rochester, Northumberland; second, £5, J. Robson.

Ram of any other age.—First prize, £15, R. Shortreed, Attonburn, Kelso, N.B.; second, £5, W. B. Buddicom, Penbedd Hall, Mold. Reserve: J. Robson.

Pen of five Ewes of any age.—First prize, £10, R. Shortreed; second, £5, J. Robson. Reserve: W. B. Buddicom.

RADNORS.

JUDGES.—(Same as for Shropshires.)

Shearling Ram.—First prize, £10, E. Farr, Pilleth, Knighton.

Ram of any other age.—First prize, £10, J. R. Paramore, Preswylfa, Neath; second, £5, E. Farr. Reserve: J. R. Paramore.

Pen of five Ewes of any age.—First prize, £10, T. Dalton, Crockherbtown, Cardiff; second, £5, T. Dalton. Reserve: E. Farr.

WELSH MOUNTAIN SHEEP.

(Not qualified to compete as Radnors.)

JUDGES.—(Same as for Shropshires.)

Ram of any age.—Prize, £10, H. Harrys, Crofta, Ystradowen, Cowbridge.

INSPECTORS OF SHEARING:—

H. Bone, Avon, Ringtonwood.

J. B. Workman, Riddon, Pershore.

PIGS.

JUDGES.—J. H. Clark, Lowood, Castle-hill, Maidenhead.

J. Fisher, Carhead, Crosshills, Yorkshire.

LARGE WHITE BREED.

Boar above twelve months old.—First prize, £10, J. and F. Howard, Britannia Farms, Bedford (Victor III.) second, £5, R. E. Duckering, Northorpe, Kirtton-Lindsey (Eighth Cultivator). Reserve and Commended: M. Walker, Stockley Park, Anslow, Burton-on-Trent (Victor II.).

Boar above six months and not exceeding twelve months old.—First prize, £10, P. Eden, Cross-lane, Salford, Manchester (Sailor); second, £5, M. Walker (Pluto). Reserve and Highly Commended: J. Wheeler, Long Compton, Shipston-on-Stour (Young Sam). Commended: J. Wheeler (Jasper).

Breeding Sow.—First prize, £10, P. Eden (Blanche); second, £5, J. and F. Howard (Duchess). Reserve and Highly Commended: M. Walker. Commended: C. R. N. Beswick-Royds, Pyke House, Littleborough (Queen Bee).

Pen of three breeding Sow pigs of the same litter, above four and under eight months old.—First prize, £10, R. E. Duckering; second, £5, C. R. N. Beswick-Royds (Rose, Shamrock, and Thistle). Reserve and Highly Commended: P. Eden. Commended: P. Eden.

SMALL WHITE BREED.

Boar, above twelve months old.—First prize, £10, P. Eden (Peacock); second, £5, C. R. N. Beswick-Royds (Hector). Reserve and Highly Commended: P. Eden (Young Prince).

Boar above six months and not exceeding twelve months old.—First prize, £10, P. Eden (Mouse); second, £5, P. Eden (Baronet). Reserve: T. Nicholson, Lowther-street, Groves, York.

Breeding Sow.—First prize, £10, P. Eden (Venus); second, £5, W. and H. Dudding (Little Queen). Reserve and Highly Commended: R. E. Duckering (Princess). Commended: C. R. N. Beswick-Royds.

Pen of three breeding Sow pigs of the same litter, above four and under eight months old.—First prize, £10, Lord Rendlesham, Rendlesham Hall, Woodbridge (Three Lilies); second, £5, G. M. Sexton, Wherstead Hall, Ipswich (Three Real Teasers). Reserve: C. R. N. Beswick-Royds.

SMALL BLACK BREED.

Boar above twelve months old.—First prize, £10, C. R. N. Beswick-Royds (Uncle Tom); second, £5, G. M. Sexton (Cremorne). Reserve and Highly Commended: G. M. Sexton (Queen's Messenger). The class commended.

Boar above six months and not exceeding twelve months old.—First prize, £10, G. M. Sexton (Patriarch); second, £5, W. M. Ware, Newham House, Helstone, Cornwall (Steatite).

Breeding Sow.—First prize, £10, G. M. Sexton (Maria Louise); second, £5, G. M. Sexton (Reine). Reserve and Highly Commended: C. R. N. Beswick-Royds (Topsy). Commended: W. M. Ware (Kate).

Pen of three breeding Sow pigs of the same litter, above four and under eight months old.—First prize, £10, G. M. Sexton (What, First Again); second, withheld.

BERKSHIRE BREED.

Boar, above twelve months old.—First prize, £10, H. Humfrey, Kingstone Farm, Shrivvenham (No. 380 M.); second, £5,

T. Radcliffe, Cheswell Grange, Newport, Salop (Dick Turpin). Reserve and Highly Commended: H. Humfrey (Maple Grove). Highly Commended: Lord Rendlesham (Dundonald). The class commended.

Boar above six months and not exceeding twelve months old.—First prize, £10, the Executors of the late W. Hewer, Sevenhampton, Highworth; second, £5, Lord Clermont, Ravensdale Park, Newry, Ireland. Reserve and Highly Commended: A. Stewart, St. Bridge Farm, Gloucester. Highly Commended: Royal Agricultural College, Cirencester, Gloucestershire. Commended: H. Humfrey, A good class.

Breeding Sow.—First prize, £10, R. Fowler, Broughton Farm, Aylesbury (Royal Princess); second, £5, A. Stewart (Duchess II.). Reserve and Highly Commended: N. Benjafield, Short's Green Farm, Motcombe, Shaftesbury, Dorset (Princess Beatrice). Highly Commended: A. Stewart, and Lord Clermont. Commended: Royal Agricultural College, Cirencester. An extraordinary class.

Pen of three breeding Sow pigs of the same litter, above four and under eight months old.—First prize, £10, A. Stewart; second, £5, J. Biggs, Cublington, Leighton Buzzard. Reserve and Highly Commended: Royal Agricultural College, Cirencester (Sally Family). Highly Commended: Royal Agricultural College (The Baroness B Family). Commended: R. G. Cosby, Stradbally Hall, Stradbally, Queen's County, Ireland.

OTHER BREEDS.

(Not eligible to compete in any of the preceding classes.)

Boar.—First prize, £10, C. R. N. Beswick-Royds (Priam—Middle); second, £5, R. E. Duckering (Wolf—Essex). Reserve and Highly Commended: F. H. Dyke, Acomb, York (Ebor—Middle).

Breeding Sow.—First prize, £10, P. Eden (Busy Bee—Middle); second, £5, P. Eden (Flo—Middle). Reserve: R. E. Duckering (Victress—Lincoln Middle).

Pen of three breeding Sow pigs of the same litter, above four and under eight months old.—First prize, £10, P. Eden (Middle).

HON. DIRECTOR.

B. T. Brandreth Gibbs, Half Moon Street, Piccadilly, W.

STEWARDS OF LIVE STOCK.

Jacob Wilson, Woodhorn Manor, Morpeth.

(For Sir Watkin W. Wynn, Bart., M.P., the President.)

R. Milward, Thurgarton Priory, Southwell.

R. Leeds, Castleacre, Brandon.

VETERINARY INSPECTORS.

Professor Browne, Veterinary College.

R. L. Hunt, Birmingham.

FARMS.

JUDGES.—T. Bowstead, Eden Hall, Penrith.

F. Dun, Weston Park, Shipston-on-Stour.

T. Jenkins, Plas-yward, Ruthin.

First prize, £100, W. S. Powell, Eglwysunynydd, Tailbach second, £50, V. Parsons, Slough Farm, Caerwent, Chepstow Highly Commended: D. Owen, Ash Hall, Cowbridge; M. Spencer, West Abertham, Cowbridge; R. Thomas, St. Atham Cowbridge. Commended: J. Culverwell, Penrose Farm, Abergavenny; J. Jones, Pant-y-Goetro Farm, Abergavenny W. B. Roberts, Lovestone, Pembroke.

BUTTER.

JUDGES.—J. Davies, Castletown, Cardiff.

J. Flint, Cardiff.

Six pounds, made up in pounds.—First prize, £5, Lord Chesham, Latimer, Chesham, Bucks; second, £3, M. H. David, St. Fagan's Rectory, Cardiff; third, £2, J. Jones, Old Beaupre, Cowbridge. Highly Commended: C. James, Pencoe Farm, Cardiff; G. C. Williams, Llanrunney Hall, Cardiff. Commended: W. Harris, Shepherdine House, Thornbury.

CHEESE.

JUDGES.—(As for Butter.)

Over six inches thick, and weighing in the aggregate not less than one cwt. (the produce of 1872).—First prize, £10, G. Gibbons, Tunley Farm, Bath; second, £5, W. Dudleston, New Lodge, Dorrington, Newport, Shropshire; third, £2, E. Benjafield, Froglin Farm, Motcombe, Shaftesbury, Dorset. Highly Commended: A. Price, Bagley, Ellesmere, Shropshire. Commended: W. Dudleston.

Under six inches thick, and weighing in the aggregate not less than 56lbs.—First prize, £10, G. Harris, Court House Farm, Lower Cam, Dursley; second, £5, J. Smith, Nupdown Farm, Thornbury; third, £2, M. Barrs, Odstone Hall, Atherstone. Highly Commended: T. Culverwell, Llwynhelig, Cowbridge. Commended: R. Stratton, The Dadrlyn, Newport

THE FIRST-PRIZE FARM OF 1872.

The 100 guinea goblet has been won for Wales by Mr. W. S. Powell of Eglwysunyd, Taibach, Glamorganshire. The second prize goes to Monmouthshire, and has been awarded to Mr. Valentine Parson, of Slough Farm, near Caerwent. We had the pleasure of walking over Mr. Powell's farm on Tuesday afternoon; and our readers will like to know some of the particulars which could be gleaned about it in the course of a short visit. It contains about 420 acres, of which 140 are arable—a light, easily worked soil—and the remainder are pasture, for the most part a somewhat rough marsh land, lying between the wooded slopes surrounding the mansion of the landowner, Mr. Talbot, M.P. for Glamorganshire, and the wide sandy shore of the Bristol Channel. The arable land is in fields of various size, from 10 to nearly 30 acres, and of various shapes, surrounded by old hedges, for whose position the tenant is not responsible, but for whose trim and well-kept condition he may claim the credit. It is cultivated for the most part on a five-years' course of cropping, the clover remaining down two years, and being then broken up for oats. The oats give place to mangels, turnips, and swedes; and these are followed partly by barley, but chiefly by wheat. Of course the yearly area of each crop varies somewhat, owing to the irregular size of the fields. There are this year about 25 acres of swedes, 4 or 5 acres of common turnips, and 8 acres of mangel wurzel. There are about 46 acres of first and second year's clover, 23 acres of oats, and 23 acres of wheat, besides a few acres of potatoes, peas, &c. The wheat (Hallett's Pedigree and Red Nursery) is a very promising crop, heavy, but all upstanding; the barley (also Hallett's Pedigree) looks very well; the oats (white Tartarian) promise a very abundant crop; the swedes are all fairly forward, now being singled out—a very even plant, grown on ridges, with a half-dressing of farmyard manure and 5 cwt. of dissolved bones; the mangels are a capital plant, about ready for their last horse-hoeing. The whole of the land is clean. The seeds, partly mown for hay and partly fed off, are a fairly even plant, hardly equal to the rest of the land. The game is strictly preserved on the estate, but rabbits are kept down by ferreting. Hares are sufficiently plentiful on the grass lands; and the 8 acres of mangels are protected by a wire netting placed temporarily by the tenant around the field for the year. The farm buildings, placed here and there in the neighbourhood of the farmhouse, are partly stone and slate, partly stone and thatch. They include ample accommodation for feeding cattle, sufficient shed room, with small yards attached, for store stock; stable room for the eight farm horses; waggon sheds, and granary. A portable engine is standing in one of the sheds, and can be applied to thrashing machinery, and to chaff-cutting, turnip-pulping, and corn-crushing machines. Hornsby's ploughs, reaping and mowing machines, are used on the farm. The premises are not by any means excessive on the score of either quantity or character. And the prize has been won by the attention and skill of the tenant, not by any extraordinary equipment of the estate by the landlord. The farmhouse is secluded from the immediately adjoining buildings by wall, trees, and shrubs, and you enter from the working-yard through a door into one of the prettiest as well as most profit-like farm-gardens anywhere to be seen. The little greenhouse is covered at one end with a perfect gloire of large purple clematis and at the other end with rosey Flower-beds, rockery and lawn, lie between the comfortable and sheltered home and the vegetable garden, which is full and overflowing with abundant crops. Within the house the side-board is covered with cups and trophies won in local competitions for both stock and crops, and on the table lie books on the science as well as the practice of farming. Mr. Powell is a very young farmer, educated for his business at home, as were his father and grandfather before him on this same farm; and his success is one more instance of the many which all agricultural colleges and schools may well take to heart, that practical training is the very essence of sound agricultural education. A farm may very easily get out of order in four years, and the winner of this year's great distinction has, therefore, much credit personally due to him for its condition and fertility; but for the character of the stock upon the farm, no doubt, credit is also due to those who have preceded him. The chief feature of the farm is its admirable herd of Herefords. From about 40 cows, all of them of good pedigree, calves are

annually reared, and either sold as bulls—three or four being thus disposed of annually—or taken into the herd, or fattened. The calf sucks the cow for four or five months, gradually learning to take meal before it is weaned. It is fed on sliced roots and straw chaff, or pulp and hay chaff, during its first and second winters, being grazed during the summers in the pastures. It is fed on turnips, mangels, and meal during a third winter, and either sold at once, or grazed off on the marsh pastures. Heavy beef and heavy prices are made, and one or two of the best of the stock generally bring home a trophy from some of the winter shows of fat stock in the neighbourhood. The flock includes 160 ewes of the Oxfordshire Down breed. A certain number of the ewes are fattened off every year, and the tegs are sold fat at twelve and thirteen months old. The pigs are a large white breed, of no particular merit. There is nothing noteworthy in the farmhorse stable. About £250 are annually spent on purchased food. 5 cwt. of dissolved bones per acre are used over some 25 to 30 acres of roots every year, and about 70 acres of old grass and clover are made into hay. The fields are drained four, and sometimes five feet deep, at frequent intervals, and the mains were pouring out an enormous efflux last Tuesday evening. We gathered from our hurried inspection of the farm that the prize has been won, not only by the few years of Mr. Powell's own good management of it, but by a long course of industrious and patient attention to business, during which good judgment and sufficient enterprise have always maintained for it a reputation for good cultivation. Eglwysunyd is not, in any sense, a "model farm," but it is an "example" farm in regard to just those particulars which a landowner, anxious for the prosperity and welfare of his estate, would most desire for his tenantry and their management.—*The Gardeners' Chronicle.*

PREPARING FOR TURNIPS.

BY THE NORTHERN FARMER.

No. 1.

The great advantage of autumn cultivation is at this season sensibly felt and appreciated by those who carried out this highly important operation before the heavy rains of winter had rendered the land sodden and inert. The fields on which this work has been efficiently performed will now be thoroughly clear of root-weeds, and comparatively little labour will be required to bring the soil into a sufficiently friable state for the reception of the seed. As a mere labour-saving contrivance, the autumn culture of land deserves a prominent place amongst the field operations of modern husbandry, although it is not by any means in this light alone that it is valuable, there being several other recommendatory points in its favour well worthy of notice. One of the most striking is the thorough cleansing from all the most troublesome perennial weeds known to the farmer, the riddance being most effectual when completely disintegrated by the action of the harrow, and then deeply buried with the plough. In this way, instead of being a most expensive nuisance, they actually become utilised, their decomposition adding an appreciable quantity of organic matter to the soil, and thus materially aid in the profitable development of future crops. Further, land that has been cleansed and worked as soon as possible after the removal of the corn-crop, is easily brought into such a state of comminution in spring, as will enable it to be drilled, and being thus but little exposed to the evaporating influence of a powerful sun, the winter moisture is retained to the immense advantage of the embryo plants in their first efforts to establish themselves. Not only does the autumnal season present an excellent opportunity for stirring

those fields deeply on which green crop is intended to be grown during the following year, but the aërication of a certain portion of the subsoil may be undertaken with perfect safety. A number of months having to elapse before it becomes necessary to put in the seed, the small portion of the underlying stratum which it may be considered safe to bring to the surface has ample time to become decomposed by atmospheric influence, and so rendered innocuous to vegetation. Whatever the nature of the subsoil, whether porous or retentive, it is highly essential that the upper soil should be of considerable depth, not only to permit the ramification of the roots of the plants which grow on it in their search for nourishment, but to aid in preserving the moisture which is so indispensable in maintaining them in a state of healthy vigour. A thin soil, whether resting on a retentive clay or incumbent on an open brashy material of exactly the opposite character, is equally to be avoided, the one souring the soil and sickening the crops by an undue retention of moisture, while the other permits the moisture to escape too suddenly, the herbage being completely burnt after a drought of a few weeks' continuance. It was recently remarked by a well-known agriculturist that although it was out of the power of man to increase the acreage by an extension of surface, he yet could vastly add to the present amount of cultivable soil by every year going a little deeper than he had previously been in the habit of doing. Want of power in both horses and implements will ever be a great barrier to the man of struggling means carrying out this most intelligent and thoroughly practical idea, but still there are plenty of farmers who have hitherto been satisfied with a depth of a few inches who require only the example of an enterprising neighbour in whose agricultural ability they have confidence to set them in the path of improvement. No subsoil operation should be permitted during the spring preparation for green crop, the stirring and reduction to the state of friability necessary being strictly confined to the soil proper. The reasons now adduced for the performance of this operation at the particular season referred to ought to be sufficiently cogent to make it a permanent institution on every arable farm, whether of limited or extended acreage. The most useful implement for giving the soil the necessary stirring is undoubtedly the grubber, either powerfully horsed or drawn by steam power. Of all the implements of the farm scarcely any require such superabundant power to be worked properly as the grubber. Feebly worked, this implement loses much of its value, the utmost it can do under such circumstances being to pass through the soil without breaking it up, bringing the roots of weeds to the surface, or doing any of the several purposes for which it is designed with the slightest satisfaction. After a field has been completely torn to pieces both lengthwise and across, it requires to be well harrowed for the purpose of shaking out the roots of weeds, and equalizing the surface. The roots, however tenacious of life, never again catch hold if once properly loosened from the earth, this operation requires therefore to be carefully performed, so as to save all after annoyance and trouble. A deep furrow with the three-horse plough makes an excellent finish on a grubbed field, burying everything injurious to the cultivated plants, and bringing to the surface the beautifully clean and fresh mould, which has been freed by the disintegrating influence of the modern cultivator. To simply turn over foul land with the plough in autumn and early winter, is but to take the surest mode of propagating the most troublesome weeds, no destruction of their vitality taking place, the plants being merely cut into offsets for their more extensive dissemination. Should it so happen that a farmer finds himself in the possession of excessively dirty

fields on the return of the season, when he must of necessity take active measures for the eradication of everything which constitutes foulness in land, modern ingenuity still comes to his assistance, and with the aid of a more extended series of implements it is quite possible, although with somewhat more labour and at a much more anxious season, not only to cleanse the land, but to reduce it to that fineness of tilth considered so desirable for the successful germination of the small seeds. Drying winds and strong unobscured sunshine, however much they may retard vegetation at a most critical period, are nevertheless essentially necessary for the spring-cleansing of land, and to undertake such a work under the opposite conditions is but a hopeless task. The grubber and plough must figure prominently on the field for the purpose of loosening the soil and bringing every rough clod and root of weed to the surface, the ordinary harrow, clod-crusher, or Cambridge roller according to tenacity of soil, and the chain-harrow, a most invaluable implement, being kept continually going between every stroke of the grubber or plough. If the farm possesses a full set of implements, but little manual labour will be required in getting rid of the weeds, as when the chain-harrow is applied after the crusher every bunch of roots is shaken free of the earth which it previously held together, and rolled into bundles by its peculiar action, which in the first stirrings are easily disposed of by carting away, or burning on the spot if time permits; and should a portion still remain when the working is finished, they may with great propriety be spread in the bottom of the drills as the plough approaches them, no danger of their ever growing needing to be apprehended after having been tossed about with the chain-harrow. However useful the grubber may be in preparing land for green crop it is nevertheless most efficacious when used in conjunction with the plough, the latter implement securing the complete inversion of the soil, clearing it out underneath as if dug with a spade, the combined action of both implements converting the entire surface of the field into a mass of fine loam, through which the drill-plough can pass unimpeded. So as to be able to take full advantage of every opportunity of tearing out the weeds which the weather affords, it is well to work the land in handy portions, according to the amount of help available, about three days' work being sufficient to undertake at one time. The operations which this division will include are—the last stirring, whether with plough or grubber, and the subsequent reduction and cleansing, the opening of the drills, carting and spreading dung, and sowing the seed. These concluding arrangements being got over quickly, the moisture is retained; and with ordinarily favourable weather, success in starting becomes almost a certainty. By thus going over a field in stretches, the work actually performed is clearly defined, a part is seeded and out of hands, and the season is caught in excellent time, for at least that breadth, whereas when extensive preparations are made over a great extent of surface and a break occurs in the weather, the season for that particular crop may be altogether late before a favourable opportunity again offers. The flexible or chain harrow is an invaluable implement on the farm at this season, and, costing little money in comparison to its usefulness, should not be done without. Its texture or formation enables it to adapt itself to every inequality of surface, and when freely used between the bouts of the crusher and ordinary harrow, leaves the surface with every clod reduced to a state of the utmost fineness, and the whole of the roots and couch rolled together in a convenient form for removal. In covering grass and clover seed it is also most effective, as its tendency is to mix these small seeds with the fine surface mould rather than cover, an even braid being invariably secured by its use.

MEADOW AND GARDEN ALLOTMENTS.

At the National Congress at Leamington Sir BALDWIN LEIGHTON read the following paper :

Before attempting to explain how in certain places the condition of the labourer has been improved by allowing him some small share in the land on which he lives by way of allotments and cowland, it may be allowable to state two facts which, whether they be accepted or rejected, whether they be contradicted to-day and acquiesced in to-morrow, or otherwise, are nevertheless the result of distinct practical experience. Firstly. That without any very considerable or sudden alteration in wages, any such rise for instance as would upset the economy of the farm or the cultivation of the land, the position of the labourer can be greatly improved, his income increased, his whole condition and value ameliorated by his own exertion on the land—which exertion at the same time by acting upon the quality of his labour and enhancing his value as a workman might increase his contentment and attachment to the soil, and eventually exterminate his pauperism—so that the solution of this question will not be by a mere direct rise in wages, but by means more fundamental, more drastic, and more human. Secondly. That although much good may ensue from meeting and conference in imparting information and correcting fallacy, yet this matter will not be settled by speeches or congresses, or even by committees appointed thereat. It will be settled by landlords, farmers, labourers and others down in their several districts, on every estate and farm, by personal devotion and practical experiment rather than by canvas and talk, or what a great writer describes as “swarmery.” But, whether these propositions be conceded or not, it is of the last importance that at a meeting like this practical truth and practical suggestion should be heard as to the best means of improving the standard of the worst by the example of the better. If it be conceded, as it must, that the position of the farm labourer in some parts is one of comparative comfort, that is to say compared with the unskilled labourer in towns and elsewhere, it must also be asserted that his position in other parts, especially in the South of England, is capable of and does require great amelioration. And first by way of garden allotments. In some parts of England it is the custom to attach to every cottage a considerable and sufficient garden, of, say, one-quarter or one-third of an acre. This is chiefly the case where the cottages are scattered and not grouped together in villages, but there are many more districts where the garden attached to a cottage is miserably insufficient. Now, it is in the power of every landlord and every farmer to remedy this state of things, at no perceptible loss to himself, by letting off in portions of, say, one-quarter of an acre, some field or part of a field. It has practically been done in many counties in England, and wherever judiciously managed it has been found to work well, and the plot of ground has come to be highly prized by the labourers. The rent paid is considerably higher than the farmer can afford, and experience shows that they are willing to pay even an exorbitant rent for land at an inconvenient distance, so greatly do they prize the advantage. Some approach to such an arrangement is made in many places by a grant of potato ground, cultivated by and rented from the farmer ; but this is in no wise equal to the allotment on which a labourer can work and invest his spare time, coming by degrees to take a permanent personal interest in it. The produce of the ground, generally potatoes and grain, makes a considerable addition to his income, but the human aspect of the system and the contentment produced, with the attachment and interest in the soil, are what is most striking in the result, and the time snatched perhaps from the public-house and the zeal and care called forth in the labourer elevating him as a man and improving him as a workman. Some little personal direction and care are useful where many allotments are made, as some few labourers will be found unfitted to hold such ; and there should be a stringent rule to give notice where the rent is in arrear. But in the case of the farmer with his labourers, he would have no difficulty in cutting off an acre or two of his farm and subletting it at a fair or even recuperative rent ; and it seems a very small matter, where

such advantage and contentment are found to ensue, for the labourer to ask or for the farmer to concede so much of interest in the soil on which he lives. It might be worth while to mention, as it might easily be shown, that by thus allowing large garden allotments to labourers they would be enabled to pay a fair rent for cottages, say a return of 4 or 5 per cent. on the outlay, and this would solve another difficult problem for landlords. Then to some few select and thrifty labourers, and, under strict precautions, a further boon can be accorded in the grant of a few acres of grass to keep a cow. In some parts of Northumberland it is the habit to allow the run of a cow to some or all of the labourers ; in the Agricultural Commissions Report I find one case where a farmer had ten labourers, each of whom kept his cow on the farm. Besides being a source of considerable profit to the man, through the labour of his wife, it enables him to rear strong healthy children ; and possibly to that cause may partly be attributed that fine type of agricultural labourer, that race of permanent giants there found, though something also must be due to nationality, and their superior education and thrift ; but the elements are not so dissimilar but that like conditions may gradually produce elsewhere like consequences, for it has been observed by competent judges, that this Northern workman, though earning much higher wages than his Southern neighbour, is not an expensive labourer, but rather the contrary, as he does far more and better work. Now, concerning this allotment of cow lands, it has been found on an estate where many such places exist, that by holding them out as prizes to those labourers who had saved money, who actually had an account at the Savings' Bank amassed by themselves, very considerable inducement was afforded to thrifty habits, and opportunities for investment with a prospect of comparative comfort were held out which indirectly has had a most beneficial effect on all the neighbourhood. This state of things is adverted to in the Report of the Agricultural Commission by the assistant commissioner, Mr. Edward Stanhope, and such steps as the following, direct and indirect, may be summarised as resulting from the system, if it can so be called. 1. Selection by means of thrift of the best labourers, reacting upon the rest in the general promotion of provident habits. 2. Elevation of the individual labourer and the whole family by increased self-respect and carefulness. 3. Supplementation of wages by the labourers' own exertions at no perceptible cost to landlord or farmer. 4. Comparative contentment and comfort, with a strong attachment to the place as a labourer. 5. Gradual extinction of pauperism and improvidence, including drunkenness. And from the experience acquired on this estate, it is probable that if where such small tenements existed, care was taken to utilize them, as prizes to the best and most thrifty of the agricultural labourers, or even attaching them to estates or to a farm, or carving them out of farms, great good might follow in opening a way and a prospect to the best men to rise. A landlord lately in this same county had sub-divided a small grazing farm of two acres that was vacant among four agricultural labourers on his estate who had saved money, and other such opportunities would from time to time arise if they are sought. Then there are two further facts bearing on the same point. A gentleman farmer, cultivating his own land, told me he had a bailiff or foreman, to whom he only paid 18s. a week, but who he said was worth half as much more, yet he never thought of leaving him or asking for more wages, and what was the secret of that ? Why, the man had a small holding of five acres of grass land under his employer. “That man,” I said, “depend on it, will never leave you of his own accord.” In another district, comprising coal and lead mines, as well as an agricultural population, where some interest was taken in the savings' banks' deposits, it was discovered that whereas many miners (that is workers at the lead mines) put by money, there was hardly a single collier who had a deposit. They were earning wages equally high, and the fact seemed incomprehensible, till on examination it was discovered that whereas most of the miners had a patch of land and a cow, the colliers, owing to the

smoke or some other local cause, hardly ever had that advantage; and no doubt invested all their earnings in the public-house. Now the same sort of results are found to follow in other places by a similar system of precaution, in allowing only thrifty families to come on the land, and notably on the estate of Mr. Hope Johnson, in Dumfriesshire, where, under the direction of his agent, Mr. Charles Stewart, the effect is thus described by an eye-witness in a report published by the Highland and Agricultural Society: "What we chiefly value in the system is its marked effect in producing and perpetuating an orderly, respectable, and well-conditioned peasantry. The problem which is generally looked upon as so difficult of solution is here solved with eminent success. It has been shown to be quite practicable to elevate the labouring man, not only without burdening the farmer or the landlord, but to the manifest benefit of both, to foster small holdings without depressing agriculture or retarding improvement, and to combine permanence with progress." A similar system with similar results obtains in North Derbyshire, and is described in the Agricultural Commissioners' Report. There are two other points not immediately within the scope of this paper, but bearing on it sufficiently perhaps to be mentioned here. 1. The prohibitory regulations of the enclosure commissioners as to cottage building prevent money from being taken up by landlords through the companies. If two or three practical men were put on the commission, there need be no great difficulty about cottage accommodation. 2. The administration of Poor-law out-relief, which, in some parts, by indirectly supplementing wages, is in fact degrading and lowering the wages of the unskilled labourer. When both employer and employed, as donor and recipients of out-relief look to the rates as a legitimate fund for indirectly and sometimes directly eking out wages, the effect cannot but be pernicious and demoralizing; and if this Conference only calls attention to this one fatuous fallacy, it will not have met altogether in vain. For man, even the most depressed and degraded, is not a machine or an animal. If he have any intelligence whatever he must have movement, progress, and objects before him; he must have some practical motive and reason to be respectable, thrifty, energetic, careful, and the like. If he is to be of any account, of any real use to an employer or a farmer he must have some other out-look and distraction than the beer-shop—some better prospect than the workhouse. The want of sympathy and intelligence sometimes displayed, especially about the southern counties, in the expression of the rural labourer, caused by the careless and pernicious—it would not be too much to say the atrocious administration of Poor Law, as yet uncorrected by the central Board—calls aloud for amendment and cure. There is one more point, not quite belonging to the subject of this paper, which is yet one of considerable moment to the agricultural interest. It is the answer to the question, Is it possible to introduce into farming any industrial partnership, such as already obtains in manufactures? that is to say, by the farmer or employer giving, in addition to the weekly wages, other extra payments depending on his own profits. I venture to assert, speaking from practical knowledge, that something of the sort is possible and desirable, and would also be for the advantage of employer as well as employed. And I say so as one who dare not advance one word or statement that is not founded on strict practical experience. In most districts, I might almost say on nearly every large farm, something of that obtains, in the allowances made to shepherds for their care and trouble in the lambing season; this can be easily extended to stockmen and some others. The difficulties in the way of a general application of the principle arise partly from absence of strict accounts and partly owing to the uncertain effect of weather and seasons. It must be left to every farmer for himself to work out how best to put such a plan into practice; but certain I am that every farmer who in these days wishes to make farming profitable, would do well to consider how to give to every labourer on his farm some sort of an interest in the profits of that farming. By some such means as these described above, it is in the power of farmers as well as landlords to mend this matter—gradually to improve the position of their labourers, without any very great cost or outlay. Let all have opportunities of rising and improving their condition. Let the best men feel that they are not dragged down to the treatment of the worst, and let all perceive that it depends on their own exertions whether they rise or not. But don't suppose

from anything herein contained, that you can go down into a pauperised district, where there exists a total disregard of the real welfare of the people, aggravated by a fatuous administration of the Poor Law, and with this or any other plan in your pocket, set all right in a day or in a year. You cannot. You cannot put such a district on a par with one where the results of a totally different policy have left their permanent traces. But you can commence the improvement at once, and perhaps the results of a few months will appear marvellous. Thus a farmer employing say half-a-dozen labourers might, by apportioning one or two acres out of his farm, give each a quarter or a third of an acre, which would probably be more valued by the men than a considerable rise of wages; and at the same time, he might hold out a prospect to any of his men who should have saved sufficient money to give them a run for a cow, or apportion another two acres for that purpose. By such means, and by some classification and payment by results, or industrial partnerships, he might gradually raise the quality of his labour and the status of his labourer—meanwhile, attaching them to the place more surely than by any cash however devisable; and if his neighbours declined to follow his example, he might come to demand the best men in the district. And let the landlords look to it also, and put off any inerness. Their personal direction and sympathy is not a little required down in these rural districts; and the maladministration of the Poor Law is greatly their concern. To them is still the kingdom and the power; to them it may yet be the glory, as it is assuredly the duty and interest to come and help in this matter.

The Rev. J. LAMB (Birmingham) said Sir Baldwin Leighton was what they wanted—a man for the people, with a warm sympathy for the agricultural labourers, to advocate their cause. He would ask the reader of the paper to entreat those of his own order—in particular the Duke of Marlborough—to let their land at a fair rate. The Duke of Marlborough, at the village of Woodstock, was letting his land to labourers, in pieces of five acres, at £5 an acre, while to his tenants he was only charging 30s. an acre. These people also had to pay a tithe-charge to him, and this he thought an injustice, because tithes were never intended for the benefit of the lay landowner, but for the support of the clergy and for the poor people. The fact that the whole of the land now held by him was given to his ancestors by the crown ought to be an incentive to the Duke of Marlborough to properly apportion his land, and to do that which was right by the labourers. The farmers on his estate were paying only 11s. a-week for labourers' wages, and that was an advance of 1s. a-week on what was paid up to a short time ago. He had been informed, and they had heard, that in Lichfield farmers were paying their labourers 16s. a-week, and, if the farmers in Lichfield could pay this sum, why could not the farmers on the Duke of Marlborough's estate do the same? Why did not they pay them what was just and right? He hoped every delegate would take away with him this simple fact, that while the farmers on the Duke of Marlborough's estate were only paying 11s. a-week, in Lichfield they were paying 16s. a-week.

Mr. STRETTON (Ferneigh, Worcestershire), who announced himself as a beerhouse-keeper, also spoke in favour of allotments, as a means of keeping men away from public-houses, and teaching them to be independent.

The Rev. Mr. PRIGOTT (rector of Edgemont, Salop) complained of what had been stated, that the clergy of the Church of England had not been favourable to this movement, inasmuch as the first movers in the action in several counties had been the clergy.

Mr. STRANGE said allotments made men independent, and enabled them to look their masters in the face, because they knew that if they were turned out they could work on their own land. It raised the wages, and gave the men an interest in the soil, and also enabled them to educate their children.

The following resolution was put and passed: "That it is desirable, as much in the cause of the employer as employed in agriculture, that the labourer should have some greater interest in the soil, by way of garden allotment, cow land, or otherwise."

UTILIZATION OF TOWN SEWAGE.

THE MAIDSTONE FARMERS' CLUB AT BISHOP STORTFORD.

Bishop Stortford has been visited by a numerous party from Maidstone and its vicinity, upon the invitation of Mr. Odams, of The Grange, Bishop Stortford, a member of the Local Board. Among the visitors, who numbered between 30 and 40, were the Mayor of Maidstone and Mr. T. Bridgland, the chairman of the Maidstone Farmers' Club.

The main portion of the day's proceedings and the chief object of the visit was, the inspection of a new system of utilising town sewage, and the obtaining of as much practical information in regard to sewage matters generally as the present state of the irrigation and outfall works would allow of, for it appears the authorities of Maidstone, like those of a great many other towns similarly situated, don't know what to do with their sewage, and feeling certain that "something" will have to be done soon, they are anxious to be prepared with a suitable scheme when the screw, which pinches Bishop Stortford and other towns in the Lee valley so hard, comes to be turned in the direction of the Medway. The company were accordingly now conducted to the sewage farm—which is, as yet, but a "baby in arms"—and was further augmented by fresh arrivals until between 60 and 70 were present. The screening tanks and those of larger dimensions for the reception of the liquid sewage after it has undergone a certain degree of filtration were the first to undergo examination. Mr. Odams answering with clearness the questions which were asked on all sides and giving all the information in his power respecting the progress of the sewage works and the difficulties the Local Board had had to encounter. One of the screening tanks was set apart for the purpose of allowing a trial of the new system of distributing the sewage over the surface of the land, it being necessary for the proper accomplishment of that object to filter the sewage with greater nicety than if intended to irrigate in the ordinary way by means of carriers. The entire volume of water and sewage matter coming from the town was turned into this tank and considering the quantity of subsoil water which enters the pipes is extraordinarily large and the number of connections made with the mains up to the present is only a small proportion as compared with those yet remaining to be done, there was a fair proportion of solid matter—quite sufficient to indicate its offensive character. Before passing through an inner chamber into one of the larger tanks, out of which it would be pumped by the engines and forced up the rising main, the liquid matter had to find its way through some faggots and a fine gauze screen, temporarily put in for the occasion, which it did but slowly and not in sufficient volume to keep the pumps in full and continuous work. Doubtless, in future operations of the kind, some plan will be devised to obviate this difficulty. The steps of all were soon afterwards directed to an adjoining pasture of between two and three acres in extent, now the property of the Local Board, but formerly constituting a part of the Great Hallingbury glebe land, and which had been selected as a suitable piece of ground upon which to try the effects of the new system of "irrigation," described as being one for "the distribution of manure liquids upon the surface of land," and as offering the maximum of advantage with the minimum of cost. The chief recommendations of Walker's method are thus summarised: No more of the liquid is distributed upon any portion of land at one time than is required as *moisture* to promote good natural growth. The liquid is distributed equally, and directly over that portion of the surface which it is intended to fertilize. It is not necessary to select level land, or to spend large sums in the preparation of the surface. The system can be applied to the field nearest the outfall sewer, whatever its shape or "lie," and may be extended from field to field, from farm to farm as required. The system is capable of application to all crops under the usual rotation, also to grazing, and to all the operations of high-class modern agriculture. The system of distribution being underground conduction, no portion of the surface is withdrawn from cultivation in the shape of runlets, trenches, ditches, or other similar provisions. This

system will be found in practice the cheapest, in consequence of the land requiring no preparation for its introduction, and because when once laid down it can be cheaply worked and maintained. The irrigation works are not liable to be damaged, and the material used in distribution will, at the end of any number of years, yield something like two-thirds of its original cost. The invention has been recognised as a "permanent improvement" on land on the same footing as drainage, and funds for applying it to the land can therefore, if thought necessary, be obtained on the same terms as for drainage or other lands improvements. One of the most deplorable results of the cultivation of sewage-flooded meadows has been the encouragement it has afforded to the maintenance of cows in town-byres, by which the quality and wholesomeness of the milk supply has been much deteriorated. Town-byres are the natural result of sewage-grass cultivation over a limited area in the neighbourhood of towns—from the facilities they give for producing large quantities of watery milk from watery grass; and they are the hot-beds of pleuro and other diseases. Cows cannot be grazed over land cultivated upon the flooding system, and their life of confinement and unnatural feeding renders them unhealthy, to the manifest detriment of all who consume town-made milk. With a proper system of herding, however, cows may, upon this system, be successfully grazed to the extent necessary for promoting their health, and improving the quality of the milk, as good milk, any more than good blood, cannot be obtained without proper nutriment and a sufficiency of pure air. The pasture "operated" upon is situated on the slope of a hill and is not very even in surface. Along the south end of it was laid a 6-inch "feeding" pipe, which was supplied from the rising main at a pressure of about 25 lbs.—about one-third of the force required to distribute the liquid through the four courses of lead pipes—1½-inch diameter—which were laid along the pasture, about twenty yards apart. These lead pipes are laid in shallow trenches and covered over with turf, except where the perforation takes place, and a kind of "rose" is formed, at intervals of about two feet apart; the holes, five in number at each interval, are pierced across the convex part of the pipe, and are protected by a piece of iron termed a shield, which allows of the water being thrown in sprays or jets perpendicularly and on either side. The feeding main can supply two sets of pipes, in opposite directions, where convenient or necessary. Before the sewage was turned on, the field presented very slight appearance of having been disturbed, but presently when the magic words "open sesame" were spoken there burst from the ground some thousands of sprays of liquid matter—clear as water to the eye—and forming as complete an imitation of a rainfall as the mind can conceive. The effect was very striking, and as a preliminary test was decidedly successful. What is to be the result of the system it will be difficult to foretell, but that it is likely to "make its mark" in the agricultural operations of the future none can scarcely doubt. At Stoke Park, near Windsor, it appears a similar system of irrigation—by water alone and combined with "top-dressings" of manure—has been in operation upon 20 acres of land since the beginning of September, 1870.

A cursory glance was taken of the ordinary irrigation works in operation on the farm—but which are in a very crude state at present—and then a move was made towards Hargrave Park, the residence of Mr. Walter Gilbey, to view his herd of Alderneys. A fierce thunderstorm broke over the locality just as the party had got safely housed. The return journey was soon commenced, and the next place of rendezvous was at The Grange, and having looked over the well-stocked houses—a veritable sea of glass—the company betook themselves to a large marquee erected under the shade of a couple of trees, and where a repast was served up to between 50 and 60. Mr. Odams in the chair, and Mr. Alfred Spencer in the vice-chair.

Mr. HOUBLON said the sewage question was a very difficult one to deal with. He felt that the drainage works in which

Bishop Stortford and other towns were engaged were for the good of the country at large. They might expect the health of the community to be improved by them, and for himself he hoped they might not only prove advantageous in a salubrious point of view, but in a pecuniary point also.

Mr. ODAMS having suitably acknowledged the compliment paid to himself, proceeded to propose the health of the chairman of the Maidstone Farmers' Club—which he believed stood second to none in England. On doing so he commented upon the "remote locality" of his own neighbourhood so far as good farming was concerned ("No, no")—as compared with the soil of Kent, a county proverbially known as the "Garden of England." He alluded to the many admirable qualities of Mr. Bridgland, and said he took it as a great honour that these gentlemen should have condescended to visit him in his humble agricultural neighbourhood. He was very much afraid they would go home disappointed with their visit ("No, no"). The operations they had seen that day were not in practical working order. The system had only been commenced that day, and a variety of experiments would have to be tried before it could be considered to have been fairly tested or anything carried out in connection with it commercially. If they could solve the sewage question by an artificial rainfall it would be a very great desideratum—but it was a most difficult problem. In most towns he had visited disinfectants were used in the disposal of the sewage; he was against their use, being quite sure such a system could not pay commercially. The only plan was to leave the sewage in its natural state and distribute it over the land, taking care to prevent anything like an unpleasant effect from it in doing so. He had been to Bedford, Rugby, and other places and had noticed the feculent matter standing in the open carriers; and to-day, as he rode along the farm, the stagnant water in the carriers was most

offensive. He did not say that its inoffensive distribution could be effected by lead pipes, but if it could be done it would be a very great desideratum. He was sure the men of Kent had much to be thankful for, and if they had come there to see them in their nakedness he might just remind them that their county was bordered by that most noble of rivers, the Thames, on which they had no doubt seen little tubs floating in the water, indicative of shoals and quicksands: they might have seen a great many of these in their visit that day, and if they had done so and could profit by them their visit would not perhaps have been in vain. He concluded by proposing the health of Mr. Thomas Bridgland, of Rose Acre Farm, Bearsted, chairman of the Maidstone Farmers' Club, which he was sure would meet with a kind and cordial response from all present.

Mr. BRIDGLAND briefly returned thanks, remarking they had made several similar journeys to this one, but had enjoyed none more thoroughly.

There remained to be witnessed one more experiment, that of street watering by the Patent Permanent System. Lengths of lead piping had been laid just within the kerbstone of the footpath in Rye-street, commencing near the Plough beer-house and extending for about 200 yards in the direction of the town. The pipes were so perforated as to throw the water on the roadside only, and as the conveyances, which were taking the visitors to their special train, drove along, the water was turned on and would speedily have laid the dust had it not been done so effectually a few hours' before by the thunderstorm. The promoters of the system assert that its adoption will effect an enormous yearly saving of expense upon horse and cart distribution, and invite persons interested in such matters to inspect the system in operation in Hyde Park.—From *The Heris Observer*.

THE PUBLIC HEALTH BILLS.

A meeting of the West Suffolk Chamber of Agriculture was held at Bury, to discuss the various bills before Parliament for the regulation of the public health, when Lieut.-Colonel Wilson, the chairman of the Chamber, presided.

The CHAIRMAN said there were now before the House three bills with regard to this subject—one a very short one, introduced by Sir H. J. Selwin-Ibbetson, which provided for the formation of a small sanitary committee in each parish; but as this was a very small bill, they need not waste their time in considering it. The next was the bill of Sir C. Adderley, and, as he (the chairman) had already stated in his letter, the first schedule proposed to repeal, either wholly or in part, some twenty Acts of Parliament passed since 1847. This bill entered into every conceivable subject, but he (the chairman) doubted whether it was worth while going into such a large Act, as it was only introduced by a private member, and it was very improbable that it would become law this session, unless it was taken up by the Government. One thing about this bill he would mention, and that was, it proposed to allow appeal from the Local Government Board to be made to quarter sessions, which he (the chairman) considered to be the proper course. He then came to the Government bill, the object of which was first to divide the whole country into sanitary districts, urban or town districts, and rural or country districts. Then it was laid down what were to be the districts, and the boards of guardians were to carry out the duties of the Acts. The Chairman then quoted from the Act several sections with regard to what were to be the duties of sanitary officers and their powers. He also read what were to be considered nuisances and what liquids were to be deemed polluted; a provision as to penalties with respect to smoke nuisances; that all drains and sewers are to be properly ventilated; that traps should be properly closed from streets; that the milk of any animal suffering from contagious disease should be considered improper for sale, and that the seller should be punishable; that in the case of a seller selling diseased meat, the justices of the peace could order the purchase-money to be refunded; a provision requiring buildings unfit for habitation to be made fit, or the tenants to quit; another for requiring urban authorities to supply fresh water if they thought fit to

do so, and also gas; provisions for hospitals, dispensaries, for distributing medicines in case of epidemics; a provision for analysts by the Act of 1860, which, he thought, had never been acted on in this part of the country—a provision for local government boards to appoint analysts, and for the quarter sessions also; a regulation for lodging-houses, and a section giving urban authorities power to make bye-laws; a provision as to obnoxious trades, or, as the Chairman explained it, a provision to the effect that if one man created a nuisance in his business, he was not to go unpunished because his next-door neighbour created a greater nuisance. A great deal was to be done by this Government bill, but it was not a comprehensive bill, like Sir Charles Adderley's, and the whole power was to be vested in the Local Government Board. Any district medical officer might be appointed inspector with the approval of the Local Government Board, and the Local Government Board officers were to have similar powers to the Poor-law officers. The Local Government Board could, by provisional order, declare any district to be an urban sanitary district, they could order the repeal of local Acts, and where, in the opinion of the Local Government Board, the population of any union is such as to render it expedient to provide dispensaries, the Local Government Board should have power to order the guardians to provide them in unions in such a way as the Local Government Board should direct. The sanitary authority had power to order any water to be analysed, or any food, according to the provisions of the Food Adulteration Act of 1860. The Local Government Board could appoint a public analyst to whom any person could go and have food or water analysed on payment of such fee as the Local Government Board might determine, &c. In case of default of the sanitary authority in performance of their duties, the Local Government Board may make an order for the performance of the neglected duty, or they may delegate to any body of persons locally interested in remedying such default all or any of the powers of the defaulting sanitary authority, and all expenses incurred by them, including reasonable remuneration, as may be awarded by the Local Government Board, to be paid out of the moneys in the hands of the defaulting authority. Any order of the Local Government Board to be

enforced by *mandamus* or removed to the Court of Queen's Bench. Where the sanitary authority had failed to make by-laws, the Local Government Board could compel the making of them; in fact, he (the chairman) thought from the bill that the Local Government Board could do just as they liked. He thought they would see that the whole power in this bill was vested in the Local Government Board in London, and they had full power to order them to do just what they liked, and to spend the money of the country in any way they thought fit. He did not argue for a moment that this bill was unnecessary, for they wanted legislation on this question, but, at the same time, an Englishman did not like to spend his money for nothing. There ought, he admitted, to be the power somewhere, and he had no objection to its being placed in the hands of the Government Board in London. It seemed to him that the most satisfactory mode of appeal in matters of this sort would be the court of quarter sessions.

Mr. HUDDLESTON asked if all these charges would fall on the rates alone.

The CHAIRMAN said that would be the case, and the rates would be divided, and there would be special charges on certain properties, but the money was to come out of the rates. All the conditions of the Act, or a great many of them, were simply for local purposes. The lighting and paving of towns the various towns and parishes ought to do themselves, and, if they did that themselves, they could pay for it, and they did not want the Government to do it. But when they got to medical officers and dispensaries, &c., he was utterly unable to see why real property was more interested in this than personal property, but, as it was for general good, the public should not pay the expenses, but the Government. Since the last meeting of the Chamber, another bill had been brought before Parliament, and that was the Intoxicating Liquors Bill, which proposed that there should be special policemen appointed for every district to visit and inspect public-houses. The Act was most stringent. The visits of these police were to be periodical, and, unless the Government were satisfied that they were efficient, they would not allow even the one-fourth of the expense of the pay and clothing of the police which they now pay towards their expenditure. These men were also to go into public-houses and ask for samples of beer and spirits, to be analysed by the Government analysts. He (the chairman) entirely agreed with stopping the adulteration of liquor, as he believed it was one of the great causes of drunkenness, but he disagreed with the principle of putting this on the rates. If the Government sent out inspectors to analyse beer and spirits, he held that the Government ought to pay for it. He did not see why the offices of inspector and analyst could not be combined, as both were to be Government officers. The Chairman concluded by proposing the following resolution, "That this Chamber, whilst admitting the necessity for sanitary legislation, regrets that the Government does not propose to consolidate the many existing statutes on this subject. It also strongly objects to the great power reserved to the Local Government Board, with no provision for appeal, which it considers should be to quarter sessions, as well as to throwing the expenses of medical officers, inspectors, hospitals, dispensaries, and other measures for the cure or prevention of disease, on local rates, whereas they are for the common benefit, and are under the control of the Local Government Board."

A member of the Chamber asked whether the power proposed to be given to the Local Government Board was greater than that given to the Poor-law Board.

The CHAIRMAN said the Poor-law Board had all the power now.

Mr. SALMON regretted that the present Government bill was not a consolidation bill, but was merely an addition to the large number of bills already existing on the same subject. It appeared to him that the Local Government Board had the power first to make an order, and then were to have the power of compelling those living in the county to pay the costs. He took three items from the bill—hospitals, sewers, and water—which would be attended with the most tremendous expense. They found it difficult in towns to get rid of the sewerage, and, under the new act, how it was to be got rid of he did not see, and thought that that and the question of water demanded the greatest consideration from the ratepayer. He thought that such things as the administration of justice and the maintenance of the police force ought really to be taken

in hand by the Government, and withdrawn from the local rates, and thrown upon the Consolidated Fund. Such charges as these were not imaginary. If the expenses of the police and the administration of justice were taken from the rates of Bury, it would make a difference of £2,000 a-year to this ratepayers. While the bill was yet before Parliament, he urged them to keep the attention of their representatives on the local burdens, and not have them increased by the addition of the expenses of public-house inspectors and analysts.

Dr. SHORT, whilst objecting to the centralisation which existed in both bills, called attention to the invidious position in which a medical man would be placed if he were appointed inspector also. He proposed that a superintendent medical officer should be appointed to supervise the district medical officers, and that the district medical officers should report to him when they found any sanitary defects existing in their districts, because, if the medical officers were found lodging complaints against anything connected with the public health they would at once be accused of interfering with the vested interests. It would not, however, be necessary to do this unless either of those bills was carried. He thought when the bill did go before the House that it would rather a hash-up of the Government bill and a hash-up of Sir Charles Adderley's bill. Several clauses might be spoken on, and more especially that with respect to the power that at present existed and the power that was then to exist with regard to overcrowding. It was a well-known fact that there was a great deal of overcrowding in several districts. He did not think the medical officer, or a medical man, or an inspector of nuisances, could interfere where the people living in a house belonged to one family, and turn them out. There were numerous instances of overcrowding, but he could not turn them out, as they had nowhere else to go. He did not believe that a strong feeling existed in his profession that sanitary acts were needed, but that acts were needed which were to take up matters of public health—and the health meant the wealth of the country—and that these should be made charges upon the Consolidated Fund, and should not be charges upon the rates, which were quite heavy enough already. He thought that vaccination should be charged upon the Consolidated Fund, and not upon the poor-rates: it would tend more to the good of the country, and would certainly be more satisfactory to the ratepayers.

Mr. HUDDLESTON said they were going to give all the power to a local authority, that was the board of guardians, or the town council, in an urban district; but if these local authorities had the power, they ought also to pay, and they must draw upon the localities for payment. He thought that was the evil in these bills. They had established a board of guardians, but the board of guardians would have a very different object than that for which it was originally established—to manage the health of the country. It would be best, he thought, to let the Government appoint their officers and inspectors, and not to give any power to the unions. If any squabble arose in the neighbourhood it would be at once referred to the Government. The board of guardians or the town council would have no power in the matter at all, and the whole affair would be given up to the board in London.

Mr. BIDDLEL said it appeared to him that there were powers if the people would only use them, and they had a staff now that if they would only act up to their powers they would not be in want of new ones. He very much doubted if they would have heard so much about sanitary matters if his Royal Highness the Prince of Wales had had good health last year, and he thought the want was greatly exaggerated. Referring to the three bills, he said it appeared to him that Sir H. Selwin-Ibbetson's was the best plan. He was quite in favour of an efficient sanitary system, and thought that if each union had an efficient inspector they could manage to keep themselves in order. With regard to the ventilation of sewers, he said he thought it was one of the greatest deficiencies existing. They were always trapping, but the disagreeable odours would not be kept down, and they very often, by shutting them up at one place, got them into others where they did much more harm. He thought they had better leave dispensaries, &c., to the Board of Guardians, but thought some of the paupers should not have to walk so far as they did for their medicines, and was opinion it was a good thing that there should be some court of appeal. He agreed with the chairman that adulterated beer was a great cause of drunkenness, and thought that if the police-inspector went to

public-houses after samples of beer he ought to be allowed to go down into the cellar and draw his own, as he (Mr. Biddell) could never believe that a publican would ever give a policeman bad beer to be analysed.

Mr. SPARKE said he thought with the chairman that it would be a good thing to clear away the large number of acts and substitute one for them, and was in favour of the guardians managing their own business, as he did not see what a body of men sitting at Whitehall could know about local affairs. The guardians could appoint officers and inspectors of all kinds, and could undertake sanitary improvements of all kinds, and if any nuisance exists in any parish they had only to apply to the board to have it removed. He thought there ought to be some supervising body over the whole number of unions to see that the duties were properly carried out, but he was sure that those duties would be better done by men living on the spot than by those living at a distance. Great evils, he said, still existed, and none greater than the want of proper water. He himself was shocked to see the horrid water people had to drink, but they had no filters, and no means of making it otherwise. He supported the Local Government Board, as it was always easy to obtain advice from that body; but he would not allow it, if he had any power, to supersede our local authorities.

The Rev. T. E. ABRAHAM said he did not know from the bill that they were to be superseded.

The CHAIRMAN said it was merely a cat's-paw.

The Rev. T. E. ABRAHAM also agreed with what had been said on the matter of consolidating the law, because it was so difficult at present to find the local authority; he also agreed that the cost should be thrown upon general property instead of real property. In speaking on the local powers already possessed by the country, he said that when a board of guardians was called upon to carry out some necessary sanitary improvement they most naturally feel great delicacy, and he (the rev. speaker) thought that it was of very great importance that there should be some power behind this local authority ready to support them. He rather thought they ought to encourage this power. He referred to the powers that the Local Government Board would have given them by this bill, and said they were very valuable, and would be of great assistance in enforcing sanitary measures. He thought all were interested in the sanitary condition of the country: it affected their children, and he did not believe that the Local Government Board would have more power given to them by this bill than they had before in regard to the working of the poor-law.

The CHAIRMAN said he thought Mr. Abraham had rather misunderstood him. He intended distinctly to say that it was ridiculous to pass an act and leave local authorities to carry out all as they pleased, but he would have some supreme power to appeal to, and he entirely held that there must be such a power. He did not agree with what Mr. Abraham had said about the central power being anxious to support local authorities. His experience was that they wanted to go against the local authorities. He had fallen in with inspectors of prisons, and a great deal of trouble one of them—a Mr. Perry—had been for four years, and with other inspectors, and he found they did anything but support the local authorities. He did not think it was quite understood about the special and general expenses. General expenses, the act laid down, should be the expenses of the establishment and officers of the sanitary authority, the expenses in relation to disinfection, &c. Special, were to be the expenses of the construction of dispensaries in all necessary places within the district, and all other local expenses determined by the order of the Local Government Board; therefore, the great bulk of the expenses would come under the head of the general expenses, and would come out of the poor-rate as it is levied now. There was another reason for legislation. During the past twenty years as many acts had been passed on this subject, and the mere fact of the existence of these twenty Acts of Parliament was enough to require consolidation and legislation; and in these twenty acts he (the chairman) knew of three different local authorities. Some declared that the union should be the area, some the highway board, and some the vestry. He did not wish it to be understood that he was unwilling to assist the Government in carrying out sanitary measures. He quite thought it was a very important question. He was quite willing to assist in any way, but he did

not like a central board in London to have the power of spending his money, and for him not to have any appeal against it.

The first clause of the resolution, which was contained in the first sentence, was then passed on the motion of Mr. Dewing, but some discussion ensued on the clause which contained the opinion of the Chamber that there should be appeal to Quarter Sessions. After some discussion it was proposed as an amendment that the words "which it considers should be to Quarter Sessions" should be struck out, but the amendment on being put to the meeting was lost. The third clause was passed without comment.

THE PERUVIAN GUANO TRADE.

[The following correspondence has been forwarded us.]

Foreign Office, June 21, 1872.

Sir,—With reference to my letter of the 1st April, I am directed by Earl Granville to transmit to you the accompanying translation of a note which has been addressed to Her Majesty's Chargé d'Affaires at Lima, by the Peruvian Minister for Foreign Affairs, in reply to the representations which Mr. Jerningham was instructed to make as to the practice of charging a uniform price for all qualities of guano.

I am, sir, your most obedient, humble servant,
E. HAMMOND.

C. S. Read, Esq., M.P., &c., &c.

[TRANSLATION.]

(Dr. Loayza, Minister for Foreign Affairs, to Mr. Jerningham.)

Foreign Department, Lima, 6th May, 1872.

I have had the honour to receive the very attentive note which Y. H. has had the goodness to address to me on the 4th inst., and numbered 23, with reference to the depreciation of guano in the markets of England; and in reply, I am happy to inform Y. H. that I have communicated with the Minister of Finance, acquainting him with the above-mentioned note, in order that the same be taken into consideration by his department, and measures be adopted in accordance with Y. H.'s statement on the matter.

I avail, &c., &c.,
(Signed) JOSE J. LOAYZA.

The Farmers' Club, Salisbury Square, London, E.C.,
26th June, 1872.

My Lord,—I beg to acknowledge, and to thank your lordship for the favour of Mr. Hammond's letter of the 21st inst., and the enclosure of the Peruvian Minister for Foreign Affairs' reply to your suggestion for some fair and accurate mode of regulating the guano trade. I trust your lordship's friendly remonstrance may produce the desired effect.

I venture to trouble your lordship upon another subject which may prove beneficial to the farmers of Great Britain. We are now annually importing upwards of 100,000 tons of Esparto grass, at a cost of about £1,000,000 a-year. Can it be possible, through our consuls in Spain and Africa, to obtain samples of the best seed of this grass, which might be grown at Kew and the national farms in Ireland, with information as to the soil best suited to its growth, and the proper mode of its cultivation?

If the Esparto grass could be acclimatised, like the Italian rye-grass, it might prove a valuable crop to grow in this country.

I am, my lord, your faithful and obliged servant,
CLARE SEWELL READ.
The Right Hon. Earl Granville, &c., &c.

LORD WARWICK'S IRRIGATION FARM.

VISIT OF THE MIDLAND FARMERS' CLUB.

A number of the members of the Midland Farmers' Club accepted the invitation of Captain Fosbery, the agent of Lord Warwick, to visit the irrigation farms at Heathcote. The party were met at Leamington by Captain Fosbery, Mr. John Bowen, Chairman of the Local Board of Health, Mr. John Ford, Chairman of the Warwickshire Chamber of Agriculture, and others interested in agriculture. The President of the Club, Mr. Bowen Jones, and a number of members from Birmingham and the neighbourhood were entertained at luncheon by Captain Fosbery, at the Crown Hotel, Leamington, Mr. Bowen Jones presiding.

The CHAIRMAN said he had the authority of a practical man for saying that there were no better sewage works in the country than those they were about to visit.

Captain FOSBERY said they had as yet had only six months' experience of sewage farming, but he thought he should be able to show them that very fine crops might be produced by it—perhaps finer than could be produced in any other way.

Mr. JOHN BOWEN admitted that a few years since he was not an advocate for the application of the irrigation principle in this district; but he had latterly been converted to the theory so energetically promulgated by a late townsman,

The rainfall to the river, the sewage to the land.

As the sewage of towns was admitted to be of great practical value, it seemed to be the duty of the authorities not to cast it into the sea, but to utilise it by its judicious distribution over the land. The sewage problem had long been a source of anxiety and annoyance to the Leamington Board of Health. What to do with the sewage was discussed at succeeding meetings of the governing body, and while this was going on the Board had an injunction issued against them for the pollution of the water of the Avon. The "powers that be" forbade them turning any refuse of towns into the river, but did not tell them what to do with the sewage, or assist them in any way in the solution of the vexed question. The Board were desirous of getting out of their dilemma, but after the adoption of the irrigation principle they found great difficulty in obtaining land for carrying out the system. In one instance when they heard that there was a probability of obtaining a certain site for £14,000, they made inquiries about it, and found that as a public body wanted it, the price was raised to £18,000. Ultimately Lord Warwick, with that kindness and consideration which always distinguished him, came to the assistance of the Local Board at a time when they did not know which way to turn, and offered to take the whole of the sewage of the district from the Board for a given number of years. There was nothing more agreeable than a bargain which was equally gratifying to both the parties to it; and he trusted this would be the case in reference to the agreement into which the Board and Lord Warwick had entered. He wished the Club had delayed their visit for a few days, by which time the Local Board's works would be quite completed. The Board had taken due precaution to have engines equal to any increase in the work which might devolve upon them in the course of years. The district was rapidly extending, and it had been thought desirable to have engines capable of doing double the amount of work at present required of them. They had to provide not only for the sewage of Leamington, but also for that of Lillington and Milverton. He had no doubt there were other towns labouring under the difficulties which Leamington had happily surmounted, and probably they had not so generous a landlord near them as Lord Warwick was. Mr. Bowen then referred to Sir Robert Peel's opposition to the proposals of the Birmingham Town Council in reference to irrigation, and expressed his opinion that the private interests of one individual should not be set up against the general advantage of an important community. He next alluded to the rich crops of rye-grass which had been gathered on Lord Warwick's irrigation farms, and their present promising appearance. He mentioned that two months ago his lordship's cabbages from the farms

were sold at £30 an acre. There was no doubt as to the excellence of the irrigation principle when land could be obtained at a convenient distance from a town, and at a reasonable price, for the application of the system.

The CHAIRMAN regretted that so large an amount of sewage was wasted, although on this score there was a deal of exaggeration. The aggregate amount of the whole mass of the population was immense, but it must be remembered that large quantities of sewage were rendered useless by the admixture of deleterious matter. The question was how to procure from the refuse of towns that which it would pay the farmer to apply to the land.

The party, numbering between 70 and 80, proceeded to the engine-house and works belonging to the Board. This pumping station has two steam-engines working alternately, each of 180 indicated (60 nominal) horse-power. These engines commenced pumping six months ago, and have gone on uninterruptedly with only one or two trifling accidents. Each engine has two pumps attached, which are capable of pumping a million and a half gallons of sewage in twelve hours. The average flow is about three-quarters of a million gallons—that is, the minimum flow is half a million and the maximum one and a half million gallons daily. The pumping-house is built near the sewage tanks, which will hold about a million gallons of sewage. The engine cylinders are 38in. in diameter, with an 8ft. stroke, and the pistons have a stroke of 5ft. The fly-wheel is 26ft. in diameter, and in weight is a perfect "Claimant," being no less than 35 tons. The engines are by Clayton. The expense of constructing this pumping apparatus was £10,000, and the cost of laying the pipes about £5,000, making altogether £15,000. The main 18in. in diameter, is carried a little over two miles to a height of 132ft. on to the farm, where eight hydrants, placed at convenient distances, supply the carriers—open trenches—for distribution over the land. The working expenses, beyond the wear and tear of machinery, pipes, interest of capital, &c., is between £500 and £600 a year. Passing on to the farm, the visitors were turned over by Mr. Davidson, the engineer, to Mr. Tough, the Earl of Warwick's farm bailiff, who pointed out the crops and the mode of tillage adopted. The farm is about 350 acres in extent, partly pasture and partly arable, and its situation slightly undulating. A field of beans, about ten acres, now blossoming and showing free luxuriant growth, promises a prolific crop. These were sown on the 1st of March, and the land has been liberally treated with sewage, to the manifest advantage of the plant, which has a clean and healthy appearance. If exception may be taken to anything so smart a farmer as Mr. Tough might do, we should certainly hesitate to drill beans so thickly on the land as he has done in this instance, but, nevertheless, there is every prospect of a big crop, and, after all, with English as well as with Scottish agriculturists, "nothing succeeds like success." The sewage has been applied also to wheat, barley, oats, turnips, and mangold, and on some of the pastures. The first barley in ear this season we saw here, and the crop altogether is a good one. Several fields of spring wheat which had been under irrigation looked extremely well, and the same may be said of the oats, &c. Mr. Tough stated the effect of the sewage on rye-grass had been marvellous. The produce is much in request for fodder for dairy stock and for horses. On Lord Warwick's farm the first cutting of rye-grass was commenced in March last and by the end of April they had finished cutting forty-five acres averaging about eight tons to the acre. The second cutting began on 1st of May, and the produce has been about twelve tons to the acre. The grass fetched 12s. per ton, and was taken away by the local dairymen for their cows, and by others for their dray horses, nags, and hunters. The greater portion is disposed of this way. What remains is given to the cows on the farm, young stock, and horses, and by them much relished. There are about a score dairy cows kept. The milk is sold in the neighbourhood, and we can say

Loth the milk and butter are of excellent quality. The cattle sheds and out-houses at the homestead are a pattern of cleanliness and good order, showing, as they do, what punctuality, method, and industry will accomplish when a man is never above his business. The pasturage exhibited a satisfactory result of the application of the sewage. A piece of old turf which had been stocked up to the beginning of May had only one dressing of sewage in the winter, and it was found that the cattle preferred to graze that portion of the pasture before the part where no sewage had been applied. The meadows

appeared to be making headway under the improved weather, being full of succulent herbage, and bidding fair to yield a capital crop of hay. We noticed a field which had been sown with mangold, turnips being drilled at the same time "to make sure" of something should there be any failure of plant. The mangolds have come up pretty regularly, and the process of hoeing and singling is now being gone through, after which the sewage will be carried over the land. It is not often one sees such regular ridging as is to be found on this piece of arable land.—*Leamington Paper.*

THE ROYAL COUNTIES (HANTS AND BERKS) AGRICULTURAL SOCIETY.

MEETING AT WINDSOR.

Under the very shade and protection of the Castle, or, as Thackeray has it:

Hard by, you see the Castle tall;
The village nestles round the wall,
As round about the hen her small
Young progeny of chickens.

And "Our Village" is an impromptu one, of tents and sheddings, of beeves and flocks—the very place, in fact, for a forager, only that "the Castle tall" is as ready to frown on a foe as to welcome a friend. And the show was not only held in her own Park and "under the immediate patronage of her Majesty," but the Queen gave the meeting her support not merely by her presence, but as an exhibitor of Shorthorns, Devons, Herefords, and Alderneys, of Clydesdale horses, and of white Windsor pigs. Again, the Prince of Wales was winning prizes for Southdown rams and ewes from his Sandringham flock, as not even the heavy rain during the afternoon could stay his Royal Highness and the Princess from visiting the ground. Never has an agricultural institution been more honoured, nor its chief delegated with higher duties than Lord Bridport, who conducted her Majesty through the exhibition in the morning, and her heir in the afternoon. In truth what with Lynn one week and Windsor the next, Agriculture and her accessories will be coming fast into fashion.

The show itself, although a fairly good one, was, like that at Portsmouth last year, in its best features very much a reflex of the West of England awards at Dorchester. Amongst the cattle there were, no doubt, many fresh faces; but those best worth knowing in the several classes of sheep and pigs were as a rule, if not old, at any rate of recent acquaintance. Thus, ever since the Dorchester show there has been a growing murmur against the decisions there and then over the Hampshires, and letters have been published in the Wiltshire journals, of which we were of course favoured with copies, complaining how the admirable sheep of Mr. This or Mr. That had been passed over. Mr. Morrison made no sign at Windsor, and in his absence Mr. Coles succeeded from a commendation to a second prize amongst the shearlings, Mr. Rawlence's first at one meeting being still first at the other. In the old class the Ponthill winner was absent, and so Mr. Bennett became first and Mr. Rawlence second, all in accordance with previous ruling. Mr. Rawlence's Dorchester ewes were again first here, with one really beautiful sheep in the pen, and the Bulbridge ramlams, which in a few weeks time will be selling at 50 gs. and 60 gs. each, maintained the almost invincible repute of the flock. It is noticeable that one of Mr. Rawlence's commended lambs is by a Southdown sheep of Mr. Fookes' breed, as it is no secret that for some time past the Hampshire men have been chopping and changing for a taste of

pure Down. For our part we should be the last to quarrel with such an arrangement, for, useful as the Hampshires may be, there is no animal in the story of modern agriculture whose appearance is more susceptible of improvement. Amongst the Downs proper the Prince sent in his Lynn shearling, and Mr. Fookes left it to his two colleagues to pick out the Norfolk winner, as they soon did; for the Heasmans are not in force this season, Sir William Throckmorton's sheep, with a suspicion of foot-and-mouth disease about, were not sent; and Mr. Penfold's next best is but a very moderate prize animal. Still, against such native Sussex flocks, this was something of a triumph for the Sandringham shearling, one of the best abused sheep out, and no doubt his head is not "quite correct;" but we should infinitely prefer a dark-faced to a white-faced Southdown. Mr. Gorringe had also some deserved success here, as his sheep are of a very smart type, and looking to be as true and highly-bred as anything in the entry. If, moreover, the visage of the Prince's prize ram was wrong, two or three of the ewes had very sweet, snake heads, and if Mr. Beck can but sort out a whole pen of their stamp the Royal Downs will not discredit their belongings at Cardiff. Mr. Wallis, whose flock has been amiss from giddiness, reappeared here, his best old sheep being the reserved shearling of Wolverhampton; while Messrs. Milton Druce and Treadwell set and re-set, and took each other up and down like the figure in a country dance. Although Lord Chesham did not send his best sheep, he won everything he entered for, Mr. Baker being his only opponent; while the Kilkennies had no difficulty in overthrowing either for first or second such Cotswolds as Mr. Browne, Messrs. Wheeler, and others could supply. There were no entries in the Leicester classes, but one exhibitor of Dorset Horns, and a few cross-breeds which the judges considered altogether out of place at an exhibition of breeding animals.

Unfortunately, Mr. Druce was rather late on the ground, and the two other judges quickly got wrong over the first class of Berkshires, where they put out Mr. Humfrey's young boar, the best of his class at Dorchester, and there as here the "most promising pig in the show;" as Mr. Joseph Smith eventually came round to this opinion. The younger class of Berkshire boars, with a good pig in "the remove," was only moderate; but the class of Berkshire sows was highly commended. Mr. Stewart did not enter, but his place was well supplied by Lord Ailesbury, who won with an almost perfect specimen of the breed, long and deep, of good quality, and with a nice but not coarse coat, a rare collar, and so forth. The College second was also second at Dorchester, when the Topsy family were merely commended, although now the best pair in a generally commended class. With some of the white breeds there was little or no competition, but numerous or limited, the Duckerings won in every class with pigs,

which have been going about all the season. Her Majesty showed in three classes of small breeds, but the Windsor whites are not so formidable as of yore, and a second prize was the only recognition of their merits.

There was comparatively a large but rough show of Shorthorns, about the pick of the bulls being Mr. Dickers' smart, straight calf, highly commended at Thame, where he was bought up by Mr. Thornton, for Australia. But there was nothing in his class to compare with him, as Mr. Mumford's prize calf at Dorchester was actually beaten for second by such a wretched thing as Mr. Fowler's "Royal" Geneva, a fact which does not say much for either of the two or the others behind them. With the two-year-olds Mr. Mumford had more luck, as his first-prize, Caballer, was beaten by Mr. Barnes' second, at Rugby and Aylesbury last year and at Thame this summer; but when we first saw the two together, it looked to be a very close thing for choice. The cows were better, Mr. Barnes winning with his fine old English Emily, wearing well at nearly nine years old, and with a grand back. Either of the highly commended Charleywood heifers, again, looked to be better than the winner, an animal of little quality, and sadly set-off by her narrow mean quarters. The first and second heifer-calves would rank well with the first bull-calf as about the best things in one of the most moderate Shorthorn shows we have seen for some time, mere numbers being the chief, as a very negative recommendation. In fact, the nine Devons for breeding and quality would have beaten the ninety Shorthorns, her Majesty leading off with a grand, massive bull, Napier, from Mr. Farthing's herd, and Mr. Taylor, of Glynley, and Mr. Trevor Senior showing two Royal cows, both fast on their way to the butcher; and also a couple of nice heifers, where the Broughton first had a great advantage at a year older than her competitor, a far truer-framed animal, Ruby, being narrow and mean forward. Mr. Taylor's beautiful heifer, on the contrary, was perhaps the best Devon in Bingley Hall last Christmas, where she won in an absurdly-constituted yearling class, a fact which at once disqualified her from entering at either the Royal or West of England meetings, although it is satisfactory to hear that the yearling class of "fat" heifers will not be continued at Birmingham. There were four entries of Herefords, where her Majesty exhibited two fine specimens of the breed in the bull Prince Leopold and the cow Victoria 2nd. There were five Sussex, three of which were from Mr. Turvill's famous herd, and a capital entry of Jersey or Channel Islanders, the Queen's yearling put first being as smart a Jersey bull at most points as we had in this fast improving section of an agricultural show. Colin, bred by Mr. Savory, is by Romulus, out of Cicely, from the stock of Miss Doyle; but the judges here would not have the plain Favourite, which took second-prize at Dorchester, and as we then thought improperly. Mr. Simpson, however, won very deservedly with his comely heifer, carrying great flesh for her breed, but with plenty of good looks, and also a second at the West of England Show. Lord Bolton's second-prize cow was bred by Mr. Philip Gaudin, in the Island; but the others distinguished on the prize-list were of home production.

Her Majesty's arrival on the ground was so far inopportune as that she reached the horse-ring, always the show sight of these occasions, just when the judges were endeavouring to weed out a very sorry class of so-called hunters. Great was the trouble which some of the riders took to force some of the under-bred animals entered up to their brides and into action, and tedious was the deliberation evinced in arriving at a decision. At length it transpired that each one of the three judges had a fancy of his own, and as no one would give way it was agreed to call in Mr. Corbet to settle the question; but as he

had grown weary of the scene and could not be found, the judges had another parley, and ultimately placed the three precisely as the referee would have done; the first prize going to a smart white-heeled four-year-old by Blackdown, a nice nag up to a certain weight, and with far more style than anything in the class. Some of the Berkshire farmers handy home here seem to be sadly in want of some tutoring as to how to set about breeding a hunter, and they should not overlook the prize thoroughbred stallion of the show. This is Benham Squire, now the property of a Buckinghamshire yeoman, who travels his horse in the summer and hunts him with the Royal staghounds in the winter. The Squire should be just in place here with country-side mares, for he has good size, power without coarseness, and is beautifully bred on either side of his head, going directly to Stockwell one way and to Melbourne the other, of course a very excellent cross. The best hack, another clever one, was also from Horton, while Mr. Anderson's prize pony was perhaps the very smartest thing in the show, not merely naturally good-looking, but with every beauty pointed by art, for Alice's toilet was simply perfect. The best cart stallion was the best two-year-old at Portsmouth, a smart Clydesdale, whose grandsire was by the late Prince Consort's well-known prize horse Britain; while noticeably enough the granddam of the best cart mare was highly commended at the Royal Society's show on this very ground in 1851, so that the two might have felt fairly at home here. Seldom, however, has there been seen a more beautiful filly than Lord Ailsbury's three-year-old, that is, so far as head, neck, and top go, but she is terribly light of bone, being quite tied below the knee, and many cart-horse authorities would no doubt have put Mr. Stanford's black, also second at Dorchester, or one of Her Majesty's Clydesdale fillies before the gay chesnut, who has still so much style that it is hard to disparage her. But for really agricultural purposes, Messrs. Stanford's yearling, The Flower, was about the pick and pride of an altogether very creditable show of cart-horses, and we confess to having overlooked her at Dorchester, where in a very small class she was also first.

There were poultry and flower shows and military bands, as matters of course, whilst those famous seedsmen, the Suttons from Reading and the Carters from Holborn, gave effect to the scene with their palatial stands of tastily-arranged roots, seeds, grasses, and so forth—kind of half-way houses as they are between the rearing of stock and the cultivation of the soil. It was thus that we wrote of the Royal Counties meeting last year at Portsmouth, and it is in this magnificent style that the rival seedsmen still proclaim themselves like Mr. Overman's hackney at Lynn, "Here-we-are-again." The two stands fairly "balance" The Castle, while these are fitted up with every possible kind of contrivance for use or show, and evidently at an expense which would seriously disturb the equanimity of Messrs. Garrett and Sons. We ourselves follow the Royal procession no further than the horse-ring; but the Court Newsman will tell you how Her Majesty stayed to take a catalogue from the hands of Mr. Martin Sutton, that she made a point of seeing out the great Sandringham Southdown, and that, with a woman's true tastes and instincts, the Queen left her carriage to see the flower show.

The dinner appears to have been an especially amusing or a particularly melancholy business, just as a man might be minded to regard it. Like the renowned Mr. Jorrocks the appetites of the guests were ready before "the vittles," and so they commenced on that they could find, beef, lamb, and salad, jelly and fruit pies, and finished up or upside-down with clear soup and boiled salmon! When will the stewards of local meetings begin to see that cold meat and comfort, a dinner so laid that people can help themselves without appealing to deaf if not

dumb waiters, must be all they should aspire to? Those luke-warm soups and long-looked for fishes must have made a trying time of it for the chairman.

There were some field trials of implements, with the subjoined results:

MOWING MACHINES.—First prize, Samuelson and Co., Banbury; second, Picksley and Sims, Leigh, Manchester. Special prize, Reading Ironworks (one-horse machine). Highly commended: Brigham and Co., Berwick-on-Tweed. Commended: Bickerton and Sons, Berwick-on-Tweed. In the ploughing match Mr. Wilder, of Reading, won with a Howard's plough, the second prize going to Mr. Stacey, of Newbury; while Mr. Wilder was also first for double ploughs.

The following firms had stands upon the ground:

Tasker and Sons, Andover; Humphries, Worcester; Gibbons, Wantage; Sinclair, Bishopsgate, London; The Reading Iron Works, Reading; Marsden, Soho Foundry, Leeds; Nalder and Nalder, Wantage; Eddington and Co., Chelmsford; Maynard, Cambridge; Wallis and Stevens, Basingstoke; Baker, Compton, Newbury; Tasker and Sons, Andover; Wilder, Reading, Berks; The Farmers' Supply Association, King William-street, London; Picksley, Sims, and Co., Leigh, Manchester; Wood, 77, Upper Thames-street, London; Fowler and Co., Leeds, Yorkshire; George Stacey and Sons, Agricultural Implement Works, Uxbridge; Hathaway, Chippenham, Wilts; Stacey, Newbury; Elliman, Slough, Bucks; Berridge and Sons, Windsor; Williams, Alma-road, Windsor; Priest, Woolnough, and Michell, Kingston-on-Thames; Osmond, Ramsbury, Wilts; Davis, 309, Regent-st., London; Cottrell, Hungerford, Berks; Milford, Thorverton, Cullompton, Devon; Simpson, Melksham, Wilts; Alway and Son, Chapel-street, Pentonville, London; Beaumont, Reading, Berks; Gower and Son, Winchfield, Hants; Haynes and Sons, Edgeware-road, London; Thorn, St. Giles-gates, Norwich; Huckvale, John-street West, Barnsbury, London; Bickerton and Son, Berwick-on-Tweed; Jones, Gloucester; Dacre, Portwood, Southampton; Parker, Woodstock, Oxford; Gilbert, Shippin, Abingdon; Aldworth, Abingdon; Milford, Kenn, Exeter; Roberts and Sons, Bridgewater, Somerset; Mitchell and Co., Hunt-street, Manchester; Adutt, Finzi, and Co., 24, Mark-lane, London; Woolf and Co., 119, New Bond-street, London; Welch, Southall, Middlesex; Dodge, 79, Upper Thames-street, London; Wallis and Stevens, Basingstoke; Braggins, Banbury, Oxford; Beach and Co., Dudley, Worcester; Slack and Brownlow, Upper Medlock-street, Hulme, Manchester; Allen, Basingstoke; Lee, Gloucester; Ellis, Oxford-street, London, and Crystal Palace, Sydenham; The Singer Manufacturing Company, 147, Cheapside, London; Kent, 199, High Holborn, London; Tomlinson, Hayward, and Bishop, Lincoln; Tipper, Balsall Heath, Birmingham; Hilton, Lichfield-road, Birmingham; Beesley, Triton-street, Plough-lane, Wandsworth; Hope, Wellingborough, Northamptonshire; Sponge and Co., 28, King William-street, Strand, London; Newton, Wilson, and Co., 144, High Holborn, London; Hall and Dyer, Monckton Combe, Bath, Somerset; De Leon and André, 24, Rathbone-place, Oxford-street, London; Scrivener, Wetton, and Gill, 2 and 4, Queen-street, Ipswich, and West Ham-lane, London; Lyon, 32, Windmill-street, Finsbury, London; Prince, Cherville-street, Romsey, Hants; Duffield, 23 and 60, William-street, Regent's-park, London; Kerr, 56, Henry-street, Dublin; Muggleton, 4, Apsley-terrace, South Norwood, Surrey; Jacquet, 26, Charlotte-street, Portland-place, London; Taylor, Windsor; Smith, 309, Regent-street, London; Proskaner, 309, Regent-street, London; Main and Co., 62, Leanehall-street, London; Windover, 32 and 33, Long Acre, London; Day, Son, and Hewitt, 22, Dorset-street, Baker-street, London; Margrett Brothers, King's-road, Reading; Van Stan, Fort Parade, Margate, Kent; Bradford and Co., 63, Fleet-street, London, and Manchester; Henry Gold, New Windsor, Berkshire; Belcher, Gee, and Co., Gloucester; Wheeler, Basingstoke; Carpenter, Staines, Middlesex; Ford and Co., Gloucester; Silvester, 80, Hatton-road, Canonbury-square, London; Herbert, 66 and 67, High-street, Eton, Windsor; Good and Brag, 10, Thames-street, Windsor; Colthurst, Symons, and Co., Bridgwater, Somersetshire; Neighbour and Sons, 149, Regent-street, and 127, High Holborn,

London; Sutton and Sons, Reading; Carter, Dunnett, and Beale, 237, High Holborn, London; Kearsley, Ripon, York; Tytherleigh, 10 and 11, Upper Weymouth-street, London; Edgington, 2, Duke-street, London-bridge; Sawney, Beverley, York; Samuelson and Co., Banbury, Oxon; Watson, Andover, Hants; Richardson and Co., Ray Park, Maidenhead; Brigham and Co., Berwick-upon-Tweed; Hodgetts and Son, Moreton-in-Marsh; Townsend, Wimbish, Saffron Walden; Berridge and Son, Windsor; Bell and Co., 490, Oxford-street, London; Cook, High-street, Reading; Stafford, Godalming, Guildford, Surrey; Hill and Co., York; Beard, 63, High-street, Eton, Berks; Matthews, Weston-Super-Mare, Somerset; Voice, Handcross, Crawley, Sussex; Dennis and Company, Chelmsford, Essex; Edgington and Co., 48, Long-lane, Smithfield, London; Major, Bridgwater, Somerset; Tuck, Bath, Somerset; Dennis, 19, High Holborn, London.

PRIZE LIST.

JUDGES.—SHEEP: H. Fooks, Whitechurch, Blandford; E. Olding, Salisbury; H. Bone, Kingwood. **CATTLE:** A. Craddock, Lamborne, Berks; W. Champion, Reading; G. Garne, Chipping Norton. **HORSES:** C. B. Smith, Wickham, Hants; W. Wheatley, Reading; J. B. Spearing, Wokingham. **PIGS:** S. Druce, Eynsham; J. White, Broad Oak; J. Smith, Henley-in-Arden. **POULTRY:** J. Bailey, Mount-street, London.

SHEEP.

HAMPSHIRE OR WEST COUNTRY DOWNS.

Shearling ram.—First prize, J. Lawrence, Bullbridge; second, R. Coles, Middleton; third, J. Lawrence.

Ram of any age.—First prize, W. F. Bennett, Chilmark; second and third, J. Rawlence.

Shearling ewes.—First prize, J. Rawlence; second, W. E. Fitt, Littleton, Winchester.

Shearling ewes.—First prize, R. Coles; second, W. Newton, Preston Crowmarsh; third, J. A. and T. Palmer, Cliddesden.

Ram lamb.—First and second prizes, J. Rawlence.

Pen of ram lambs.—First prize, J. Moore, Littlecot; second, A. Budd, Overton; third, W. Newton.

Pen of ewe lambs.—First prize, J. Barton, Basingstoke; second, T. Moore, Basingstoke; third, J. A. and T. Palmer.

Ewes of any age.—First prize, J. Barton; second, J. A. and T. Palmer. Commended: A. Budd.

SOUTHDOWNS.

Shearling ram.—First prize, Prince of Wales; second, H. H. Penfold, Selsey; third, J. A. and E. Heasman, Angmering. Highly commended: Earl Portsmouth. Commended: H. Gorringe, Ashcroft; J. A. and E. Heasman.

Ram of any age.—First prize, H. H. Penfold, Selsey; second and third, H. Gorringe. Highly commended: H. H. Penfold.

Pen of shearling ewes.—First prize, Prince of Wales; second, H. Gorringe. Highly commended: W. Taylor, Glynley.

OXFORDSHIRE DOWNS.

Shearling rams.—First and second prizes, A. F. M. Druce, Eynsham. Highly commended: J. Treadwell, Aylesbury. Commended: G. Wallis, Old Shifford; J. Treadwell.

Ram.—First prize, G. Wallis; second, J. Treadwell. Commended: A. F. M. Druce; J. Treadwell.

Pen of shearling ewes.—First prize, A. F. M. Druce; second, C. A. Barnes, Charleywood.

SHROPSHIRE DOWNS.

Shearling ram.—First and second prizes, Lord Chesham, Latimer.

Pen of shearling ewes.—First prize, Lord Chesham; second, W. Baker, Moor Barnes.

COTSWOLDS.

Shearling ram.—First and second prizes, the executors of Mr. T. Gillett, Kilkenny, Faringdon, Oxon. Highly commended: H. Howell, Cirencester. Commended: Cirencester College.

Ram of any age.—First and second prizes, the executors of Mr. T. Gillett. Highly commended: J. Wheeler and Sons, Long Compton. Commended: T. B. Brown, Walperton Park.

Pen of five shearling ewes.—Prize, H. Howell. Highly commended: T. Little, Morcote.

SOMERSET AND DORSET HORNED.

Ram of any age.—Prize, H. Mayo, Cokers Frome.
Pen of five shearing ewes.—Prize, H. Mayo.

CROSS-BREDS.

Pen of five ram lambs.—First prize, Mrs. Clift, Sherborne; second, F. Battcark, Hemington, St. Ives. Highly commended: F. Battcark.

Pen of five ewe lambs.—First prize, Mrs. Clift; second, F. Battcark. Commended: F. Battcark.

HORSES.

CART HORSES.

Stallion, foaled before the year 1870.—First prize, J. Butler, Sheffield Court; second, G. Elliott, Laverstoke Grange.

Stallion, foaled in 1870.—First prize, F. Battcark, Hemingford; second, G. Botham, Wexham Court; third, E. and A. Stanford, Eatons.

Mare and foal.—First prize, G. Allen, Old Windsor; second, R. Roberts, Iver, Bucks.

Gelding or filly, foaled in 1869.—First prize, Marquis of Ailesbury, Savernake; second, W. Stanford, Steyning.

Gelding or filly, foaled in 1870.—First prize, E. and A. Stanford; second, S. Davis, Woolas Hill, Pershore.

Colt, foaled in 1871.—Prize, A. Waterer, Woking.

Brood mare.—Prize, S. Davis.

Gelding.—Prize, S. Davis.

THOROUGHBREDS.

Stallion of any age.—Prize, G. Trumper, Horton, Bucks.

HUNTERS.

Mare or gelding of any age.—First prize, J. Barton, Basingstoke; second, H. Howell, Cirencester. Highly commended: G. Elliott, Micheldever.

HACKS.

Mare or gelding, not exceeding 15 hands high, and calculated to carry 12 stone.—First prize, P. A. Walker, Slough; second, J. Moore, Pewsey. Commended: C. Willoughby, Wantage.

PONIES.

Mare or gelding, not exceeding 14 hands high.—First prize, J. Anderson, Staines; second, W. Perkins, Southampton. Highly commended: E. and A. Stanford, Steyning. Commended: J. Graham, Horton.

Mare or gelding, not exceeding 13 hands high.—First prize, Lord Rendlesham; second, G. Shackel, Reading. Highly commended: C. Cornwell, Windsor. Extra prize, T. C. Moore, Slough.

CATTLE.

SHORTHORNS.

Bull.—First prize, Lieut.-Colonel Loyd Lindsay, Wantage; second, J. Blythe, Woolhampton.

Bull, above two years and under three years on the 21st of June.—First prize, J. A. Mumford, Thame; second, C. A. Barnes, Rickmansworth.

Bull, above one year and under two years of age.—First prize, Lieut.-Col. Loyd Lindsay; second, W. H. Dunn, Hungerford.

Bull-calf, not exceeding twelve months old.—First prize, S. S. Dickers, Tetsworth; second, J. K. Fowler, Aylesbury.

Cow in calf, or if in milk having had a calf within six months next preceding the 21st of June.—First prize, C. A. Barnes, Rickmansworth; second, O. Viveash, Swindon.

Heifer in milk or in calf, under three years of age.—First prize, C. Charwood, Reading; second, J. Walter, M.P., Wokingham.

Heifer, above one year and under two years of age.—First prize, W. Nicholson, Alton; second, O. Viveash, Swindon.

Cow-calf, above six months and not exceeding twelve months old.—First prize, C. A. Barnes; second, S. S. Dickers.

HEREFORDS.

Bull of any age.—First prize, Her Majesty the Queen; second, J. Turvil, Alton.

Cow in calf, or if in milk having had a calf within six months of the 21st of June.—First prize, Her Majesty the Queen.

DEVONS.

Bull of any age.—First prize, Her Majesty the Queen; second, J. W. Biel, Southampton.

Bull under three years of age.—First prize, T. L. Senior, Aylesbury; second, Her Majesty the Queen.

Cow in calf, or if in milk having had a calf within six months of the 21st of June.—First prize, W. Taylor, Westham; second, T. L. Senior, Aylesbury.

Heifer under three years of age.—First prize, T. L. Senior, second, W. Taylor.

SUSSEX.

Bull of any age.—Prize, E. and A. Stanford, Steyning.

CHANNEL ISLANDS.

Bull of any age.—First prize, Her Majesty the Queen; second, H. Drewett, Titchfield. Commended: G. Simpson Reigate.

Cow in calf, or if in milk, having had a calf within six months of the 21st of June.—First prize, H. Drewett; second, Lord Bolton, Basingstoke. Highly commended: G. Simpson, Reigate; W. Gilbey, Stanstead.

Heifer, not exceeding two-and-a-half years of age on the 21st of June.—First and second prize, G. Simpson, and also commended for another.

PIGS.

BERKSHIRES.

Boar of any age.—First prize, Cirencester College; second, H. Humfrey, Shrivenham.

Boar under twelve months old on the 21st June.—First prize, Cirencester College; second, H. Humfrey.

Breeding Sow of any age.—First prize, Marquis of Ailesbury; second, Cirencester College.

Sows under nine months old, on the 21st of June.—First prize, Cirencester College; second, Major J. E. Riley, Winkfield.

LARGE BREED (NOT BEING BERKSHIRE).

Boar of any age.—Prize, R. E. Duckering and Sons, Kirtou Lindsay.

Breeding sow of any age.—Prize, R. E. Duckering and Sons. Commended: J. Wheeler and Sons, Shipston-on-Stour.

SMALL BREED (NOT BEING BERKSHIRE).

Boar over twelve months old on the 21st June.—First prize, R. E. Duckering and Sons; second, J. Wheeler and Sons.

Boar under twelve months old on the 21st June.—First prize, R. E. Duckering and Sons; second, Lord Rendlesham. Highly commended: J. Wheeler and Sons.

Breeding sow of any age.—First prize, R. E. Duckering and Sons; second, Her Majesty the Queen. Highly commended: J. Wheeler and Sons.

Sows under nine months old on the 21st June.—First prize, R. R. Duckering and Sons; second, J. Wheeler and Sons; third, Lord Rendlesham.

EXTRA STOCK.

Highly commended: A. C. Sayers, Botley; J. H. Clarke, Castle Hill, Maidenhead; R. Coles, Warminster. Commended: H. E. Rainbird, Basingstoke; J. W. Brown, Swindon.

THE DINNER.

The Chairman, Lord BRIDPORT, said Her Majesty was perhaps one of the largest occupiers of land in this kingdom. She retained all those farms that belonged to the Prince Consort, who was beloved and endeared by the agriculturists of this country. Her Majesty that morning on going round the show expressed her satisfaction and interest, and said she was much pleased and surprised at the excellent arrangements of the show. She was moreover much pleased that afternoon to hear that she had been a successful exhibitor on that occasion, having gained several first prizes in the Hereford, Devon, and Alderney classes. Moreover, he thought this Society was very much indebted to his Royal Highness the Prince of Wales for having sent some excellent specimens of Southdown sheep from Norfolk, for two pens of which he had obtained first prizes. He might mention a little anecdote with regard to those prizes. Mr. Fookes, who was the judge of Southdown sheep, informed him that morning that he had been acting as judge at Lynn, and he therefore hesitated to take part as judge and pronounce a decision. Therefore he stood aside and allowed his two brother judges to decide whether his Royal Highness should have a prize or not, and they were unanimously of opinion that the Prince was entitled to a prize. He communicated that fact to his Royal Highness

at Windsor Castle that afternoon, and he replied "Quite right too; it is just what he should have done."

Mr. J. WALTER, M.P., said that, with regard to the illustrious assembly of which he had the honour to be a member, he would only say that they were extremely indebted to the agricultural classes for the little trouble which they gave. They certainly did not give them the same share of trouble which they received from other classes of the community. It was some years now since they heard anything of the Malt-tax. He did not think they had heard much of the Game-laws this session of Parliament; and all those circumstances proved that the agricultural classes were contented, and that they were aware they were doing well (laughter). He held these expressions of merriment as a confirmation of the remark he just now made (renewed laughter and cries of "No, no"). He was sorry to hear a few dissentient voices, but he could assure them of this serious fact, that they

might depend upon it that just in proportion as classes had reason to know that they were doing well, and were well governed, just exactly in proportion would they abstain from coming to Parliament. If the great majority of the farmers of England at this moment were invited by Parliament to say what it could do for them, their reply would be that given by the cynic Diogenes—"Nothing; get out of my sunshine."

Mr. SCLATER BOOTH could not admit that agriculturists were in a state of prosperity, for that was an admission that no British farmer ever would make (roars of laughter). With regard to the Malt-tax, he would say that the British farmer was a practical man, and knew that there were occasions on which to agitate and occasions when it was better to be silent. A powerful organisation had been at work, and at the proper time the matter would be brought forward again. The grievance rankled, and on a future occasion would be found as fresh as ever.

THE DONCASTER AGRICULTURAL SOCIETY.

MEETING AT DONCASTER.

At the first show of this newly-established Society, of the entries, 355 were horses, 104 cattle, 65 sheep, 61 pigs. In the class for bulls of any age, Mr. Linton's Lord Irwin was of course the most dangerous rival; and the next best in the class, in the judges' estimation, was Mr. Mann's red and white Iron Duke. In the class of bulls between two and three years old, the Thorne prize-taker, Wellington, succeeded not only again in defeating Mr. Mann's representative, but Mr. Brierley's two. It is no little praise to Iron Duke that, while he was second to such an animal as Lord Irwin, his produce should have obtained such unprecedented success. In the younger bulls Mr. Watson's Pioneer well deserved his position, and is likely to be heard of again at the local gatherings. Of cows and heifers there were many highly commendable animals, such as Mr. Foljambe's Concert, Mr. Statter's Lady Ann, and Mr. W. Tennant's Parting Rose. The piece of plate, valued at £20, for the best Shorthorn beast in the yard, excited more than ordinary interest. All the first-prize winners were brought to the ring, and these were gradually reduced to two—Mr. Linton's bull Lord Irwin, and Mr. Statter's two-and-a-half year old heifer, Lady Ann. The prize was at length awarded to the white bull. The exhibition of Alderney cattle was so good that the judges highly commended it. Of the 65 entries of sheep the long-wools predominated, there only being 13 in the short-woolled classes. Amongst the entries were the two cup winners at Thorne, but Mr. Hutchinson, of Catterick, carried almost all before him. In a capital show of shearling rams he took off all three prizes; and in the rams of any age no other exhibitor could get nearer to him than high commendation. In the long-wool shearling gimmers, which were said to be the best lot of sheep on the ground, Mr. Hutchinson was not so fortunate. In this class gentlemen from Lincolnshire took all the prizes; Mr. Byron, besides the pen winning the £10, having five other sheep which were voted very good. Mr. Crawshaw's silver cup was taken by Mr. Turner, of Armthorpe, the competing pen being nothing near so good. The short-woolled sheep were not numerous, nor, with one or two exceptions, were they so commendable as the long-woolled. The agricultural horses were good, especially the three-year-olds, every one of which received commendation from the judges. In this class Farmer, belonging to Mr. Woolhouse, of Lincoln, succeeded in defeating Mr. G. Wood's filly by Young Action, the cup winner at Thorne. The first prize for the horse or mare, used exclusively for agriculture, was taken by Mr. R. C. Workman, of Alholme, as also Mr. Skelsey's silver cup for the best pair of light dray or van horses. Mr. Workman's success, however, did not even stop here, for he also took the silver cup given by Messrs. J. C. and T. Yates. The roadsters were also a superior lot. The judging of the five-year-olds excited considerable attention, and ultimately the award of the £50 went to Landmark, the horse who took the first prize at the Agricultural Hall, Islington, while during the present show Mr.

Jewison has sold him to Mr. James Hall, of Scarbro', for £500. Mr. Jewison is still to be allowed to retain Landmark for the season for exhibition, and the prizes he may receive are to be divided between his recent and his present owner. Mr. Harvey Bayly's well-known Borderer won in the all-aged class; and in some of the others the horses shown were exceedingly good. The pigs included 61 entries, with the white breeds, here, of course the best.

The exhibitors of implements were Whiteley, Doncaster; Snowden, Doncaster; Driffield Linseed Cake Company; Stephenson, Scaftworth; Stephenson, Doncaster and Bawtry; Farr, Doncaster; Crossley, Doncaster; G. Smith and Son, Doncaster; W. S. Smith and Son, Doncaster; Burke and Co., Doncaster; Bushell, York; Sanderson, Thorne; Littlewood, Stanley-lane, Sheffield; Hurst, Doncaster; Cooke, Lincoln; Moore, Tickhill; Harrison, Lincoln; Hoyle, Bawtry; Smith, Foston; Rimmington and Co., Newcastle-on-Tyne; Foster and Smurthwaite, Pocklington; Wade, Hornsea; Wadsworth, Doncaster; Howard, Oldcoates; Platts, Doncaster; Edlington, Gainsborough; Bramworth, Hanson, Hopper, Saynor, Doncaster; Myers, York; Pearson, Gainsborough; Vickers and Son; and Plant and Co., Doncaster.

PRIZE LIST.

JUDGES.—CATTLE: W. Sanday, Ratcliffe-on-Trent; J. Singleton, Givendale, Pocklington; H. Dudding, Panton House, Wragby. SHEEP: G. Leighton, Osgodby, Scarborough; G. Smart, Woodhouse Grange, Aberford; R. Woods, Osberton, Worksop. HORSES (Hunters): J. E. Bennett, Husbards Bosworth, Rugby; W. Godson, Normbanby-by-Stowe; E. Paddison, Ingleby. HORSES (Agricultural): G. Angus, Beeford, Hull; G. Robson, Shires House, Easingwold. WOOL: T. Clayton, Stanley House, Ripley.

SHORTHORNS.

Bulls, any age above three years old.—First prize, W. Linton, Sheriff Hutton, York; second, G. Mann, Scausby Hall. Highly commended: J. H. Sunderland, Billington.

Bulls above two and not exceeding three years old.—First prize, W. Dyson, Tinsley, Rotherham; second, C. W. Brierley, Rhodes House, Middleton, Manchester; third, G. Mann. Highly commended: Capt. Tennant, Scarcroft Lodge, Leeds. Commended: F. J. S. Foljambe, M.P., Osberton Hall.

Bulls above one and not exceeding two years old.—First prize, T. Frank, Fylingdales, Whithy; second, W. Linton; third, J. F. Watson, Crowle Wharf. Highly commended: G. Mann. Commended: S. Wile, Bandsby, Easingwold, and G. Atkinson, Hall Farm, Seaham.

Bull calves above five and not exceeding twelve months old.—First prize, J. D. Ellis, Thurscore Hall; second, Major Staplyton, Myton, Helperby, York.

Cows of any age, above three years old, in calf or milk.—

First prize, F. J. S. Foljambe, M.P.; second, Major Stapylton. Highly commended: T. Statter, jun., Stand Hall, Whitefield, Manchester. Commended: G. Mann, and T. H. Hutchinson, Manor House, Catterick.

Heifers, not exceeding three years old, in calf or milk.—First prize, T. Statter, jun.; second, F. J. S. Foljambe, M.P. Highly commended: T. Statter, jun. Commended: J. Gool-den, Clay House Hall, Altringham; S. Wiley, Brandsby; E. Sayles, Ecclesfield; and H. F. Smith, Lamwath House, Sutton, Hull.

Heifers not exceeding two years old.—First prize, W. Tennant, White House, Barlow, Selby; second, T. H. Hutchinson. Commended: F. J. S. Foljambe; T. Statter, jun.; and Capt. Tennant.

Heifer calves above five and not exceeding twelve months old.—First prize, J. T. Robinson, Leekby Palace, Asenby, Thirsk; second, T. Statter, jun. Highly commended: F. J. S. Foljambe. Commended: F. W. Park, Grove, Retford.

Alderney, Jersey, or Guernsey cows or heifers, in calf or milk.—First and second prizes, J. Brown, Rossington Hall. Highly commended: Major Stapylton.—The class generally commended.

£5 5s. (in addition to any other prize by the Society), for the best Shorthorn heifer in calf or milk, which previous to the day of entry (June 6th) had never obtained a prize of £3 or upwards.—Prize, J. Gooldeen.

£20, for the best Shorthorn in the show.—Prize, W. Linton (Lord Irwin).

SHEEP.

LONGWOOLS.

Shearling rams.—First, second, and third prizes, T. H. Hutchinson.

Ram of any age.—First and second prizes, T. H. Hutchinson. Highly commended: R. Wright, Noeton Heath, Lincoln.

Pen of five shearling gimmers.—First prize, J. Byron, Kirkby Green, Sleaford; second, R. N. Morley, Leadenham, Grantham; third, R. Wright. Highly commended: T. H. Hutchinson.

£5 5s., for the best pen of five shearling wethers, shorn not earlier than the 1st of April, 1872.—Prize, F. T. Turner, Armthorpe.

Pen of five ewes that have suckled lambs up to the time of the show.—First prize, T. H. Hutchinson; second, W. Roe, North Scarle Field, Newark. Highly commended: R. C. Workman, Almholve.

SHORTWOOLS.

Shearling ram.—First prize, S. Ashton, Manor Farm, Timperley; second, W. Baker, Moor Barns, near Atherstone.

Ram of any age.—First prize, S. Ashton; second, W. Baker.

Pen of five ewes that have suckled their lambs up to the time of the show.—First and second prizes, W. Baker. Highly commended: J. Brown, Rossington Hall.

HORSES.

AGRICULTURAL.

Stallion for getting agricultural horses.—First prize, J. Forshaw, Burley in Wharfedale, Leeds; second, J. Edminson, Burnley, Lancashire. Commended: B. Law, Stancil.

Brood mare for breeding agricultural horses, with foal sucking.—First prize, C. Lister, Coleby Lodge, Lincoln; second, W. Banks, Baththorpe, Howdon. Commended: R. C. Workman, Almholve; C. Curton, Wistow Lordship, Selby; C. Marsden, Ash Hill, Hatfield; T. Statter, jun.

Three years old agricultural gelding or filly.—First prize, G. Woolhouse, Noeton Grange, Lincoln; second, G. Wood, Hayfields. Highly commended: G. Woolhouse. Commended: J. Baddiley, South Kirby, near Pontefract; R. C. Workman, Almholve; F. Turner; T. Duckett, Bentley; T. Turner, jun., Aldwark, Rotherham; W. Bramley, Amcotts.

Two years old agricultural gelding or filly.—First prize, C. Burton; second, W. Brockton, Tudworth Green, Hatfield. Commended: J. Baddiley; F. T. Turner.

Yearling agricultural colt or filly.—First prize, W. Toder, West Burton, Retford; second, J. Hudson, Kirk Sandail. Commended: S. Barker, Marr.

Pair of draught horses, used exclusively for agricultural purposes.—First prize, C. W. Brierley, Rhodes House, Middleton, Manchester; second, T. Statter. Commended: S. Barker; W. Bramley.

Horse or mare used exclusively for agricultural purposes.—First prize, R. C. Workman; second, C. W. Brierley.

Dray horse or mare, any age.—First prize, C. W. Brierley; second, The Corporation of Doncaster.

Pair of light dray or van horses.—First prize, £5 5s., R. C. Workman; second, W. B. Tate, Rossington.

Pair of horses for agricultural purposes, any age or sex.—Prize, £5 5s., R. C. Workman.

Colt or filly under three years old, by Warwick.—Prize, £5 5s., J. B. Whitaker, Hesley Hall, Tickhill. Commended: W. Stephenson, Holly House, Scaftworth, Bawtry.

ROADSTERS.

Stallion for getting roadsters.—First prize, H. R. W. Hart, Dunnington Lodge; second, J. Watkins, Newland, Epworth.

Brood mare for breeding roadsters, with foal sucking.—First prize, T. Shearman, Warmsworth; second, T. Harrison, Wheldrake, York. Commended: T. E. Morrell, Hellaby Hall, Rotherham.

Three years old roadster, gelding, or filly.—First prize, T. Hall, Burton Agnes, Hull; second, J. F. Crowther, Knowl Grove, Mirfield.

Hackney or roadster, any age or sex, equal to carry 13 stone, not exceeding 15 hands 2 inches high.—First prize, £10 and a silver cup, T. E. Morrell, Hellaby Hall, Rotherham (Miss Polly); second, £5, Major Stapylton, Myton, Helperby, York. Commended: T. Clarkson, Melbourne-street, Leeds, and P. Hornsby, Barrowby Cottage, Grantham.

Three years old coaching gelding or filly.—First and second prizes, J. Johnson, Brigham, Driffield.

Pony above 12 hands, and not exceeding 14 hands high.—First prize, J. M. Blackhouse, Wistow, Selby; second, J. H. Barton, Stapleton Park, Pontefract.

Pony not exceeding 12 hands high.—First prize, F. Mosey, Leeds; second, Colonel J. D. Astley, Elsham Hall, Brigg. Commended: J. Elwis, Doncaster; W. J. Hoggard, Tickhill.

Mare or gelding 14 hands or upwards, any age, to be shown driven in single harness, action to be taken into consideration.—First prize, J. Dickenson, Greenheys' Mews, Manchester (Duchess); second, J. R. Dennison, Minsthorpe, Pontefract.

Pony, any age or sex, under 14 hands, to be shown in single harness, action to be taken into consideration.—First prize, F. Clater, Awkley, East Retford; second, W. Bramley, Amcotts, Doncaster. Commended: W. White, West Villa, Doncaster.

HUNTERS.

Stallion for getting weight-carrying hunters.—First prize, W. T. Sharp, Baumber, Horncastle; second, W. Johnson, Goole Fields, Goole. Commended: W. Axe, Doncaster.

Brood mare for breeding hunters, with foal sucking.—First prize, W. Tindall, Ashfield House, Lincoln; second, J. T. Robinson, Leekby Palace, Asenby. Commended: Major Stapylton.

Hunting gelding or mare, six years old and upwards, substance and breeding to be taken into consideration.—Silver cup value £25, and the Society's prize of £25, T. H. D. Bayly, Edwinstowe House, Ollerton (Borderer); second, E. Hornby, Flotmanby, Ganton, York (For'ard).

Five years old hunting gelding or mare, qualified to carry thirteen stones and upwards.—First prize, H. Jewison, Raisthorpe, York; second, W. Mundy, jun., Wrawby, Brigg; third, B. Hornby, Flotmanby, Ganton, York. Commended: T. H. Newton, Oldfield, Cheshire.

Four years old hunting gelding or filly.—First prize, T. Darrell, West Aytton, Brompton, York; second, T. H. Newton. Highly commended: W. Armstrong, Watts Fields, Kendal.

Three years old hunting gelding or filly.—First prize, J. M. Tattersall Musgrave, Beverley; second, J. Everatt, Laughton, Gainsborough.

Two years old hunting gelding or filly.—First prize, R. Cadman, Broughton, Malton; second, J. Byron, Kirkby Green, Sleaford. Commended: J. T. Robinson, Leekby Palace, Asenby, Thirsk.

PIGS.

Boar, large breed.—First prize, J. Garbutt, South Cave, East Riding; second, P. Eden, Cross-lane, Salford.

Sow, large breed, in pig or milk.—First prize, P. Eden; second, C. R. W. B. Roys, Pykehouse, Littleborough, Manchester.

Boar, small breed.—First prize, P. Eden; second, C. R. N. B. Roys.

Sow, small breed, in pig or milk.—First prize, P. Eden; second, C. R. N. B. Roysds.

Boar, large breed, not exceeding 12 months old.—First prize, R. E. Duckering, Northorpe, Kirtton Lindsey; second, P. Eden.

Sow, large breed, not exceeding twelve months old.—First prize, J. Garbutt, jun., South Cave, Brough; second, P. Eden.

Boar, small breed, not exceeding twelve months old.—First prize, P. Eden; second, C. R. N. B. Roysds. Highly commended: R. E. Duckering.

Sow, small breed, not exceeding twelve months old.—First and second prizes, P. Eden. Highly commended: J. Rudd,

Horton, Bradford; T. Parkinson, Doncaster; W. B. Tate, Rossington; T. Kirk, Doncaster; and R. E. Duckering.

Three store pigs of any breed, the same litter.—First prize, R. Sellars, Boston Park, near Doncaster; second, T. Parkinson.

Cottager's pig, not exceeding twelve months old.—First prize, W. Mitchell, Balby; second, T. Gore, Doncaster.

WOOL.

Five fleeces of wool grown by the exhibitor.—First and second prizes, M. Thomlinson, Cowthorpe, Wetherby; third, G. Wood, Hayfield, near Doncaster. Highly commended: F. T. Turner, Armthorpe.

CAMBRIDGESHIRE AND ISLE OF ELY AGRICULTURAL SOCIETY.

MEETING AT CAMBRIDGE.

There was a very middling display of cattle, both as to numbers and quality. People either had the foot-and-mouth among their animals, or were afraid of getting it at the show, and very many entries, therefore, did not put in an appearance. In several classes there was, perhaps, only one animal for two prizes, in others two, as altogether the competition was very small. Had it not been for the entries of Messrs. How and Garne, the Shorthorns of Cambridgeshire would have made a poor impression upon strangers. Mr. Garne seems to be making a tour of the provinces, and his "flashy" bull won easily in the open class, as some judges think he will be a formidable competitor, with another year to furnish. Mr. Garne's white cow, Princess Alexandra, had to play second to Mr. How's massive, deep-fleshed, well-formed heifer Verona, a first-prize winner at Lynn, and who should be well up at Cardiff. The show of sheep was not very remarkable for merit, the majority of the entries being very middling animals.

Of horses for agricultural purposes there were no fewer than 160 entries, and the classes were pretty generally well filled. Of riding and coaching horses, there was a capital display. The judges gave the blue ribbon to Bolero by Cellarius, the property of Mr. H. Thurnall, of Royston. The same horse was declared to be the best hunter out of sixteen entered, which decision entitled its owner to the £20 prize; and he was also awarded Lord Royston's twelve-guinea cup for the best saddle-horse in the yard exceeding 13 hands high. Mr. Purser has objected to Bolero, on the ground of his not being a hunter! Eighteen animals were gazetted as hackneys, and the prize went to a four-year-old by Performer, sent by Mr. W. Jones, of Kingsland, while the red ribbon was attached to Mr. F. Reynolds' roan mare, who has taken nine prizes at different shows. None other than Eastern Princess, the dam of the celebrated Prince Charlie, with foal at foot, won the special prize given for the best mare calculated to breed weight-carrying hunters.

The following is a list of the exhibitors of implements: Beales and Co., Cambridge; Ward and Silver, Suffolk; Headly and Son, Cambridge; Wilkinson and Son, Ely; Baker, King's Lynn; Innes, Royston; Maynard, Whittlesford; Cutlack, Ely; Savage, King's Lynn; Woods, Cocksedge, and Warner, Stowmarket; Wright, Alford; Coultas, Grantham; Kemp, Cambridge; Stafford, Wansford; Hills, Sudbury; Wilkerson, jun., Bassingbourn; Edwards, Fordham; Baxter and Lutterer, Cambridge; Hope, Wellingborough; Cooper and Co., Chatteris; Day, Son, and Hewitt, London; Ballard, Cambridge; Winship, Cambridge; Hunnybun and Son, Cambridge; Vinsen, Cambridge; Harper, Cambridge; Crawley and Co., Cambridge; Summers and Son, Cambridge; Rouse, Wisbech; Burton, Cambridge; Taylor, Duxford; Smyth and Son, Peasenhall; Tipper, Birmingham; Chater, Cambridge; Hilton and Co., London; Burrell, Thetford.

The arrangements were good, and the show was on a beautiful site.

PRIZE LIST.

JUDGES.—CART HORSES: J. Cox, Hill-end, Sandridge, Herts; J. Manning, Orlingbury, Wellingborough. NAG HORSES: G. Higgins, Castle Close, Bedford; H. D. Boulton, Putnoe, Beds. CATTLE: W. Torr, Aylesby, Grimsby; C. Howard, Biddenham, Beds. LONG-WOOLLED SHEEP, PIGS, AND WOOL: J. H. Casswell, Laughton, Folkingham; T. W. Marshall, Branston, Lincoln. SHORT-WOOLLED AND CROSS-BRED SHEEP AND WOOL: R. J. Newton, Campsfield, Woodstock; J. Turner, Chynton, Seaford. IMPLEMENTS: J. Martin, Littleport; H. Long, jun., Ely. BUTTER AND CHEESE: T. Nichols, Cambridge.

HORSES.

FOR AGRICULTURAL PURPOSES.

Stallion.—First prize, £10, W. May; second, £5, D. Camps. Two-year-old colt.—First prize, £5, R. Hopper; second, £3, H. Lambert.

Cart mare, not under four years old.—First prize, £5, and second, £3, H. R. Ekins.

Mare and foal.—First prize, £5, E. Crowe; second, £3, T. Gunnell.

Two-year-old cart gelding.—First prize, £4, T. and S. Fison; second, £2, T. Reynolds.

Two-year-old filly.—First prize, £4, E. Crowe; second, £2, H. Purser.

Plough team.—First prize, £6, J. Linton; second, £3, J. Crisp.

Plough team adapted for heavy land.—Prize, £5, J. Linton.

Plough team adapted for light land.—Prize, £5, H. R. Ekins.

Mare and foal, the sire of foal being a winner of the Treasurer's Cup.—Prize, 12 gs., E. Crowe.

Foal, the sire being a winner of the Treasurer's Cup.—Prize, £5, T. Gunnell.

Pair or team of cart mares or geldings.—Prize, £10, J. Linton.

Three-year-old colt, gelding, or filly.—First prize, £5; second, £3, S. G. Jonas.

Yearling colt, gelding, or filly.—First prize, £5, W. Nix, jun.; second, £3, D. Camps.

Foal.—First prize, £4, T. Gunnell; second, £3, J. Linton.

Entire horse.—Prize, a cup, value £20, R. Hopper.

RIDING AND COACHING HORSES.

Stallion, to get weight-carrying hunters.—First prize, £10, T. Smith; second, £5, H. Dench.

Hackney stallion.—First prize, £10, W. Flanders; second, £5, B. Mitchell.

Mare or gelding, under five years old, adapted for hunting purposes.—First prize, £5, H. Thurnall; second, £3, G. S. Hall.

Hackney mare or gelding.—First prize, £5, H. Jones; second, £3, F. Reynolds.

Mare, calculated to breed weight-carrying hunters, and foal.—First prize, £10, and second, £5, H. Jones.

Mare, calculated to breed hackneys, with foal at foot.—First prize, £5, and second, £3, T. Smith.

Cob, mare, or gelding, not exceeding 14 hands 2 inches high.—First prize, £5, F. Reynolds; second, £3, W. D. Brown.

Hackney mare or gelding, under four years old.—First prize, £5, G. K. Ambrose; second, £3, E. Arnold.

Hunter (open to all England).—Prize, £20, H. Thurnall.

Saddle horse, exceeding 13 hands high.—Prize, a cup value £12 12s., H. Thurnall.

Brood mare, calculated to breed weight-carrying hunters.—Prize, £10, H. Thurnall.

Light-weight hunter.—First prize, D. Adams, £10; second, £5, G. S. Hall.

Pony, mare, or gelding, not exceeding 13 hands high.—First prize, £5 H. Jones; second, £3, W. N. Saberton.

JUMPING PRIZES.

Horse or mare.—First prize, £6, W. P. Brown; second, £4, G. S. Hall; third, £2, W. Cockerton.

Pony, not exceeding 14 hands high.—First prize, £5, C. Papworth; second, £3, R. Pate.

Pony, not exceeding 13 hands high.—First prize, £3, T. Baker; second, £2, R. Moore; third, £1, W. P. Brown.

SPECIAL PRIZE.

Thoroughbred stallion.—Prize, £10, T. Smith.

CATTLE.

Bull, exceeding two years old.—First prize, £8, J. How; second, £4, C. Ellis.

Bull, not exceeding two years old.—First prize, £8, H. Lamb; second, £4, J. Linton.

Bull, not exceeding one year old.—First prize, £6, J. How; second, £3, C. Ellis.

Cow, in calf or in milk.—First prize, £6, J. Morton; second, £3, H. Thurnall.

Heifer, not exceeding three years old, in calf or in milk.—First prize, £6, J. How; second, £3, F. W. Lilley.

Heifer, not exceeding two years old.—First prize, £4, C. Daintree; second, £2, T. Banyard.

Heifer, not exceeding one year old.—First prize, £4, J. How; second, £2, T. Banyard.

Cow, in calf or in milk, not eligible to be entered in the Herd-book.—First prize, £8, J. Morton; second, £4, F. Street.

Heifer, not exceeding two years, not eligible to be entered in the Herd-book.—First prize, £5, C. Daintree; second, £3, J. F. Thoday.

Alderney or Guernsey cow or heifer.—First prize, £4, H. Thurnall; second, T. Rush.

Fat steer or heifer.—Prize, £4, S. Wilson.

Pair of grazing steers, not exceeding two years old.—Prize, £5, N. G. Hutchinson.

Shorthorn bull, exceeding two years old.—Prize, £20, G. Garne.

Shorthorn bull, not exceeding two years old.—Prize, £10, H. Lamb.

Cow or heifer for breeding purposes.—Prize, £10, J. How.

Pair of fat bullocks.—Prize, a cup, value £5 5s., J. Linton.

Bull, cow, and offspring.—Prize, £10, J. Morton.

SHEEP.

Shearling Leicester or Lincoln ram.—First prize, £5, T. Gunnell; second, £3, T. Gunnell.

Pen of five Leicester or Lincoln ram lambs.—First prize, £5, R. Sparrow; second, £3, T. Gunnell.

Pen of five Leicester or Lincoln ewes certified to have brought up a lamb this year.—First prize, £5, P. Grain; second, £3, F. Allwood.

Pen of five shearling Leicester or Lincoln ewes.—First prize, £5, T. Gunnell; second, £3, R. Sparrow.

Pen of five Leicester or Lincoln ewe lambs.—First prize, £5, R. Sparrow; second, £3, T. Gunnell.

Shearling shortwoolled ram.—First prize, £5, F. M. Jonas; second, £3, Lord Dacre.

Pen of five shortwoolled ram lambs.—First prize, £5, Lord Dacre; second, £3, G. Jonas.

Pen of five shortwoolled ewes certified to have brought up a lamb this year.—First prize, £5, G. Jonas; second, £3, Lord Dacre.

Pen of five shearling shortwoolled ewes.—First prize, £5, G. Jonas; second, £3, F. M. Jonas.

Pen of five shortwoolled ewe lambs.—First prize, £5, Lord Dacre; second, £3, G. Jonas.

Pen of five cross-bred lambs.—First prize, £4, W. J. Waters; second, £2, S. G. Jonas.

Pen of five shearling blackfaced Suffolk ewes.—First prize, £5, J. A. Osler; second, £3, H. Long, jun.

Pen of five shearling blackfaced Suffolk ewe lambs.—First prize, £4, H. Northern; second, £2, R. M. Jary.

Long-woolled ram, two-shear or upwards.—Prize, £5, C. Hales.

Pen of five longwoolled fat shearlings.—Prize, £4, T. Gunnell.

Pen of five shortwoolled fat shearlings.—First prize, £4, G. Cooke; second, £2, S. Wilson.

Pen of five cross-bred fat shearlings.—First prize, £4, and second, £2, T. Rush.

Shearling Southdown ram.—Prize, £5 5s., F. M. Jonas.

Pen of Oxfordshire Down ewes.—Prize, £5 5s., F. Street.

Pen of five Leicester ewes.—£5 5s., F. Street.

PIGS.

Boar, large breed.—First prize, £3, H. A. Kilham; second, £1 10s., G. E. Daintree.

Boar, small breed.—First prize, £3, H. A. Kilham; second, £1 10s., J. Dawson.

Sow, in pig or suckling, large breed.—First prize, £3, F. H. Everett; second, £1 10s., H. A. Kilham.

Sow, in pig or suckling, small breed.—First prize, £3, and second, £1 10s., F. H. Everett.

Pen of three sow pigs, not six months old, large breed.—Prize, £3, O. J. Jones.

Pen of three sow pigs, not six months old, small breed.—Prize, £3, H. A. Kilham.

Pen of three yelts, not six months old.—Prize, £5 5s., O. J. Jones.

IMPLEMENTS.

Collection of agricultural implements.—First prize, £10, Headly and Son; second, £5, Beales and Co.

WOOL.

Five fleeces of Lincoln or Leicester wool.—Prize, £3, S. H. Rowley.

Five fleeces of half-bred wool.—Prize, £3, J. J. Ellis.

BUTTER AND CHEESE.

3 lbs. of butter made up in single pounds, the exhibitor being an owner or occupier of land.—First prize, £5, T. Gunnell; second, £2, Lady Dacre.

Cream cheese (not less than 1 lb.)—First prize, £2, A. Grounds; second, £1, L. Carpenter.

THE DINNER

took place in the Town Hall, the President of the Society, Major Pemberton, in the chair.

Lord GEORGE MANNERS, M.P., said: There was one subject upon which he might wish to enlarge. He would not trouble them with more than one word, and that was the unfortunate want of concert that existed between employers and employed. He would only say that he hoped that question would be approached with forbearance on both sides, and that it would be ultimately settled in a way that would be for the advantage of the country. But at the present time he thought the less that was said about the matter the better.

The CHAIRMAN, in proposing Prosperity to the Cambridgeshire and Isle of Ely Agricultural Society, said he thought it was due to the Royal President of the Norfolk Agricultural Show to say that his Royal Highness had suggested that there should be an amalgamation of county societies. It was for them to consider the matter, for everything which came down from such a source ought to be received with the greatest deference. Whether the amalgamation would or would not be for the good and prosperity of the Society he was not able to say. His Royal Highness proposed the amalgamation of the Norfolk, Suffolk, Cambridgeshire, and Essex Societies. He would candidly tell them that he did not think it would affect beneficially the emulation of that county. It was a matter for the farmers themselves to consider, but there were some matters of detail, such for instance as the practicability of taking butter and cheese and such like things say from Ely to

Chelmsford, and especially in a hot summer. At the same time the matter deserved every consideration, coming as it did from such a source. They also knew that the plan was very successfully adopted in the west and south of England, where there were large amalgamations, and it was for them to decide whether those examples should be followed. He thought it very desirable that they should follow the example of the Norfolk societies, and admit ladies to the annual dinners.

Professor HUMPHRY said: We must not allow ourselves to think that the hero of song, the fine old English gentleman, belongs to the olden time only. He is still bodily present with us. Our ideal of him is still impersonated beneath many a rustic garb. He, or his equal, is to be found not only in the county hall, and in the residence of the yeoman, but also—and that very frequently—in the peasant's cottage. The position which I have, for thirty years, held in relation to this county and town has given me a large acquaintance with the agricultural peasant, larger perhaps than that of anyone here present. I have known him in his trials, sometimes succumbing to them, sometimes recovering from them, but commonly bearing them manfully; and I have found that he possesses a large share of that which constitutes the essence of the character of the gentleman, namely, the reliance upon the honour, truthfulness, and good-feeling of others, springing from the fact, unrecognised by him, that those qualities are largely present in himself. Whatever changes may hang over us—and of the future we know this one thing only, that, in many respects, it will be unlike the present—I trust this feature of character may not be weakened, but that gradually improving education, with gradually increasing prosperity, may only add refinement to it.

Mr. H. R. BRAND, M.P., said as to the question that was agitating the employer and the labourer, he thought it was right and proper for anyone who had the interest of agriculture at heart to say a word whenever he could which might lead to the promotion of a conciliatory spirit. There had been considerable bitterness lately provoked, not merely in that county, but in various parts of England. The question of the improvement of the position of the labourer was not a new one (marks of dissension). He had always been of opinion that the agricultural labourer had something to complain of (No, and interruption). He had four years ago given utterance to sentiments on the subject at Luton (interruption), and he had been taken to task for it. He had stated that in his opinion the labourers were the only class of persons who had not shared in the prosperity of the country. Two years ago he had also alluded to the subject, and he stated this so that it might be seen he was not wise after the event (renewed marks of disapproval). He said at Hitchin some short time ago that the agricultural labourer, as far as his purchasing power was concerned, was not in a better position than he was 100 years ago (Oh, and shuffling of feet). He did not make these remarks except after careful consideration (hisses and cheers). He knew it was said that if they gave increased wages to the labourers the increase would go to the public-house, and he felt there was some grounds for that statement, and it was for the labourers themselves to refute the statement. He did not believe in restrictive legislation making men sober, but he firmly believed that clean and healthy homes could do much to induce the labourers to keep away from the public-house, and there was some prospect now of the rent being forthcoming if good cottages were provided. He hoped that in time they might be able to get good cottages and a piece of land to rent, and that it might have a good effect (interruptions). He would say that he hoped that nobody in that room would think that increasing the labourers' wages would be injurious either to the owners or occupiers of land (Oh). He did not believe it would be injurious to one single owner or occupier (hisses and shuffling of feet, and other discordant noises). If it did not increase the cost of production (hisses), it could not be injurious. The rise would fall not upon the producer, but upon the general public (renewed interruptions) in the increase of prices (cheers and hisses). If there was not sufficient to carry the cost of production, the loss must fall upon the labourers themselves (hisses). He saw his remarks were not palatable, and he was sorry, because it was a subject that he had very much at heart, and felt a great deal of interest in, but if they would not hear him he could not help it (renewed interruption). If they thought increasing the wages of the agricultural labourer would

be injurious to the country, they made a very great mistake. [All the remarks of the speaker on this subject were received with strong marks of disapproval.]

Mr. TORRENS, M.P. said there was, however, one subject intimately connected with agriculture which was hardly of a political, certainly not of a party character, upon which he would say a few words. The noble lord who had recently left the room, and also the member for Hertfordshire, had already referred to the same subject. He differed from the noble lord in the opinion he had expressed, that it was expedient to avoid discussion on the question of the recent great movement amongst agricultural labourers (Oh, and interruption). On the contrary, he held it to be consistent with sound policy to look coming events fairly in the face, and in due time make such provision as might prevent inevitable changes falling injuriously or unequally on any one class of the community (interruptions.) The movement was not confined to any one trade or business, or to any one country, but appeared to be simultaneous throughout great portions of Europe as well as in this country and the United States (increased interruption). The old relations which for so many centuries had subsisted between the agricultural labourers and their employers were doomed to change, and the question was, what new relations were to be substituted. [The disapproval of the meeting with the sentiments of the speaker was very marked.] It was too much the fashion in treating of this subject to dwell exclusively on the direct money payment received by agricultural labourers, as though that were their sole reward, leaving out of sight the perquisites which they very generally enjoyed, in the shape of cottages at rents which did not yield a fair return for capital expended; in doles of various kinds; in garden plots of potato ground; but chiefly from the poor-rates—rates, be it observed, levied on the landowners and farmers for the exclusive benefit of the labouring class, all which were nothing more nor less than supplemental to wages. [Here about a hundred or more left the meeting, shuffling their feet and producing confusion]. It was, therefore, no more than just that the agricultural labourer when he demanded to be placed in the position of an independent, self-reliant, self-sustaining man—as he was in all new countries—should be made fairly to understand that this involved the cessation of his present semi-feudal relations with his employer, which, when it implied a dependence bordering on serfdom, was at the same time accompanied by substantial considerations, such as gratuitous medical aid in sickness, and provision—such as the workhouse or parish relief afforded—in destitution or old age. It behoved landowners and farmers to look out in time, and see that considerable modifications were introduced into our system or Poor-law administration, such as should place upon the agricultural labourer and working classes generally the obligations which belonged to the new position of self-reliance and self-sustentation involved in the receipt of full money wages in payment for their labour (disturbance). He was convinced that the coming change would be for the benefit of both parties. [The disturbance was now so great and continuous that scarcely anybody but those sitting close to the hon. gentleman heard what follows.] It was time the agricultural labourer was raised from the position which was his evil inheritance of dependence since the old feudal days. To the employer this change should bring a large reduction of poor's-rates, and he could not agree in the opinion so almost universal amongst farmers that a high rate of wages would be detrimental to their interest. He could speak from experience and observation upon that point, for he found that although he paid 5s. per day for labour in Australia, and but 2s. 6d. in Devonshire, there was scarcely any difference in the cost of a given piece of work in the two places. The reason was that the man who got the 5s. had plenty of beef and bread, decent and cleanly living, and could, therefore, without strain or injury, perform double as much work as the man who, on 2s. 6d., never tasted meat, seldom had as much food of inferior kind as he required, and lived uncleanly and squalid. They all knew that a well-fed horse, well groomed and stabled, could do as much work as two horses out of condition, grass-fed, and neglected. And the same rule was found to apply to human beings. How else was it that farmers in the northern counties, whilst paying 18s. to 20s. per week, thrive better than Dorset or Devonshire farmers who paid but 9s. to 12s. a-week? He felt that he was trespassing on their patience, but was led to do so by the interest of the subject.

THE IMPORTATION OF THE CATTLE DISEASE FROM IRELAND.

On the very eve of the great national cattle show there is something ominous in the interview which the Council of the Royal Agricultural Society had with the Vice-President of the Privy Council on Thursday. And yet those who have been about the country of late must, in some degree at least, have been prepared for the grave facts as here put. At the meeting of the Essex Society the champion bull of his year was prevented from again appearing in consequence of a suspicion of foot-and-mouth disease in Lord Exeter's herd. At Cambridge last week, as our report goes, intended exhibitors "either had the foot-and-mouth disease among their animals or were afraid of getting it at the show;" and at Bury St. Edmund's on Thursday it will be found there were a great many gaps, the disorder now prevalent in the eastern counties being of a particularly virulent character. In fact, the report of our correspondent as coming from the Suffolk show-ground and the resolutions of the Royal Agricultural Society as submitted to Mr. Forster on the same day run in almost the same words: "That the foot-and-mouth disease, in an unusually virulent form, is at the present time extensively prevalent, and rapidly increasing."

There is one feature, moreover, in the official report of this interview which has especial and peculiar prominence. Mr. Thompson in his opening address stated that "the experience gained in his own county showed that outbreaks of foot-and-mouth disease almost invariably followed the importation of Irish cattle into a district." The fourth resolution of the Council declared that "both at the shipping and landing ports in the Irish Channel the precautions requisite to prevent the transit of diseased animals between the two countries are grossly neglected." Colonel Kingscote could prove that "Bristol was the great centre of infection in his part of the country, and from that market the diseased animals went to Gloucester, Chippingham, Devizes, and other places, and spread the disease through the counties of Gloucester, Somerset, Wilts, Dorset, and Hereford;" Bristol, of course, being simply a great centre because it is a landing port for Irish cattle. Mr. Torr held that as "Ireland had been kept clear of cattle plague by the strong restrictive measures adopted by the Irish Government Ireland ought now to be prevented from supplying us with foot-and-mouth disease;" and Lord Powis said that "the importations from Ireland were confined to three or four centres from which the infection was spread all over the kingdom."

So said the representatives of the Royal Agricultural Society, on the Thursday in last week, and so said *The Mark Lane Express* in the autumn of last year. In August and September we drew continual attention to the indisputable fact that it was from Ireland we now regularly received our supplies of home-established diseases, such as foot-and-mouth and pleuro-pneumonia. Correspondents of our own proceeded to trace the affected beasts from their arrival at Bristol down into Cornwall, or "about" in Gloucestershire and Wiltshire; and everywhere with the same disastrous results, as, early in September, we gave a distinct and general warning that "cattle disease is now methodically imported from Ireland." And yet at this very time and for long afterwards, people who professed to be looking very jealously after the interests of the English stock owners, were doing all they could to

divert the public mind from the Irish to the foreign cattle trade. There must be a foreign market, or there must be "another" foreign cattle market; two or three animals suffering from foot-and-mouth disease had been discovered up the river, or landed and sold, and so forth; while diseased beasts were shipped, landed, and sold in droves from Ireland, and spread over the country, with what effect the blank places at Cambridge, Ipswich, and Halstead, may afford some, but only some very limited idea. Mr. Forster received the thanks of the deputation on Thursday for the firmness with which he had withstood pressure from a certain class, whoever this may be; but it is in any case sufficiently manifest that if the course of action now taken by the Royal Agricultural Society be right, that of some other associations has long been turned in a wrong direction. The resolutions of the Royal Society regard the virulent form of foot-and-mouth disease, so rapidly increasing, as almost altogether a home question. The precautions against Irish cattle are "grossly neglected," magistrates and municipal authorities "must adopt restrictive measures best calculated to abate the evil," and the regulations recommended by veterinary inspectors must be "promptly and efficiently carried into effect." The Royal Society, it will be observed, says nothing of foreign stock or foreign markets, while the Home Cattle Association has seldom said anything about anything else. Even at Northampton last week, where a meeting of the county Chamber was called to consider the best means of preventing the spread of foot-and-mouth disease, and some strong resolutions passed, not a word was said about Ireland. Somebody had heard something about some Dutch beasts, and somebody said that the importation of foreign cattle deterred the English grazier from doing his best, but nobody seemed to be aware that disease as imported from Ireland was running right under their very noses!

The weak point of the case as put by the Society is that the Cattle Act leaves most matters, as Mr. Forster showed, optional with the local authorities, and some of these have not hesitated to declare that they would rather run the risk of foot-and-mouth disease than shut out or stop even for a time the importation of Irish beasts, as hence the difficulty of adopting any general system of "restrictive measures." There can be little doubt, however, that a deal more vigilance might be exercised over the shipping and landing of Irish stock, and with a view of doing something more in this way another deputation from the Royal Agricultural Society will have an interview this day with Lord Spencer and Lord Hartington.

There are many visitors bound for Cardiff, who will find Bristol directly on their road, or there are some who talk of making that town their head-quarters. It is still to be hoped that the stock will be kept as clear as possible of a place from which of late has been disseminated more disease than from all the Continent of Europe, and a disease which is now assuming a very dangerous or even fatal type.—*Mark Lane Express*, July 8.

"A MODEL AGREEMENT."—The members of the Maidstone Farmers' Club have just presented Mr. Henry Corbet with a handsome drawing-room clock, "in acknowledgment" of the paper read by him on this subject at one of the recent Club meetings.

ROYAL AGRICULTURAL SOCIETY OF ENGLAND.

MONTHLY COUNCIL: Wednesday, July 3.—Present: Sir Watkin W. Wynn, Bart., M.P., President, in the chair; the Earl of Leicester, the Earl of Lichfield, the Earl of Powis, Lieut.-General Viscount Bridport, Lord Portman, Lord Tredegar, Lord Vernon, the Hon. Wilbraham Egerton, M.P.; Sir Massey Lopes, Bart, M.P.; Mr. Barnett, Colonel Challoner, Mr. Dent, M.P.; Mr. Druce, Mr. Holland, Mr. Wren Hoskyns, M.P.; Col. Kingscote, M.P.; Mr. Leeds, Mr. McIntosh, Mr. Randall, M. Shuttleworth, Mr. Stone, Mr. Statter, Mr. Thompson, Mr. Torr, Mr. Webb, Mr. Welby, M.P.; Mr. Wells, M.P.; Colonel Wilson, and Dr. Voelcker.

The Earl of Ilchester, Melbury, Dorchester, and the Earl of Lonsdale, Lowther, Penrith, were elected governors of the Society.

The following new members were elected:

Andrews, Charles James, Grey Friars House, Reading.
 Apperley, Newton, W., Rainton Gate, Fence Houses, Durham.
 Arkell, Daniel, Dean Farm, Hatherop Fairford, Gloucester.
 Arkell, William, Hatherop, Fairford.
 Barnes, J. R., Brookside, Chirk, Raubon.
 Blenkinsop, James, Egham, Surrey.
 Brewer, T. Llewellyn, Dan-y-graig, Newport, Monmouth.
 Briggs, Captain C. J., Hylton, Castle, Sunderland.
 Brooks, William C., 5, Grosvenor Square, W.
 Carrillon, John Wilson, Wormhill, Buxton, Derby.
 Castree, jun., J., College Green, Gloucester.
 Corrance, Frederick S., M.P., Broadwater, Framlington.
 Cotton, T. E., Knolton Hall, Ruabon.
 Croker, Joseph, Shirenewton Farm, Chepstow.
 Danford, William Lewis, Langley, Bromfield, Salop.
 Dubuz, J. Claude, Killion, Truro, Cornwall.
 Edwards, C. B., Minster Close, Peterborough.
 Farmer, James, Llyssum, Welshpool.
 France, James, Grinshill, Shrewsbury.
 Garrard, Robert, Brundish Grove, Wickham Market.
 Graham, William Benjamin, Torquay Villa, Maidce, Newport, Monmouth.
 Hall, Charles E., 43, Blensham Terrace, Gateshead-on-Tyne.
 Hinckesman, Charles Henry, The Poles, Ludlow, Salop.
 Jenkins, David, Flemingstone Court, Cowbridge.
 Jenkins, Thomas, Pantycallog, Dowlais.
 Jones, Wm., Record-street, Ruthin.
 Lane, Walter, 17, High-street, Chepstow.
 Leigh, William, High Ofley, Newport, Salop.
 Luck, Captain F. Hartlip, Sittingbourne, Kent.
 Mahon, Viscount, M.P., 48, Chester-square, S.W.
 Musgrove, Edgar, West Tower, Ormskirk.
 Pate, Martin, Ely, Cambridge.
 Peacock, Thos. K., Rugerra Castle, Newport, Monmouthshire.
 Penson, William Stayt, Baunton, Cirencester.
 Perkins, Loftus, 6, Seaford-street, Regent's-square, W.C.
 Perkins, William, Thorney, Peterborough.
 Preece, W. Goodwin, Shrewsbury.
 Rees, W. G., Bryn Hedydd, Newport, Monmouthshire.
 Ringer, T. F., Brancaster, Lynn.
 Roberts, G. C., 8, Wright-street, Kingston-upon-Hull.
 Smith, Wm., Berkeley, Gloucester.
 Stanley, E. J., 14, Grosvenor-square, W.
 Titterton, J. Ward, Shiffnal, Salop.
 Williams, Rees D., Mannest Court, Brecon.
 Williams, R. W., Windsor Villa, Cardiff.
 Wilson, Charles, Shotley Park, Blockhill, Durham.
 Young, Edwin, Park House, Newport, Monmouthshire.

FINANCES.—Lieut.-General Viscount Bridport (chairman) presented the report, from which it appeared that the secretary's receipts during the past month had been duly examined by the committee, and by Messrs. Quilter, Ball, and Co., the Society's accountants, and found cor-

rect. The balance in the hands of the bankers on June 30 was £1,887 14s. 6d., and £2,000 remains on deposit. The quarterly statements of subscriptions and arrears to June 30, and the quarterly cash account, were laid on the table. This report was adopted, with the addition of the following resolution, moved by Mr. Webb, and seconded by Mr. Randall:

That the candidates for election as members of the Society, whose names have just been read, shall be entitled to the privileges of membership at the Cardiff meeting on paying their subscription for 1872, and signing the usual conditions.

JOURNAL.—Mr. H. S. Thompson (chairman) mentioned the measures which had been taken to obtain a report on the proceedings of the Cattle Plague Congress recently held in Vienna, and on the veterinary aspect of the increasing virulence and spread of foot-and-mouth disease, and then reported the following recommendation of the committee:

That they be authorized to expend a sum not exceeding £100 on an investigation into the causes which seem periodically to produce fresh outbreaks of foot-and-mouth disease, especially amongst the cattle imported from Ireland.

This report was adopted after a conversation, in the course of which Mr. Randall expressed the hope that the investigation would not be curtailed should the amount of the grant prove insufficient to cover the expenses. Mr. Torr mentioned some new features of the recent outbreak of the disease, and the Earl of Powis, the Hon. W. Egerton, M.P., Sir Massey Lopes, M.P., and Mr. W. Wells, M.P., expressed their opinion of the importance of the investigation, as proved by recent experience in their several counties.

Colonel Kingscote, C.B., M.P., then moved, "That a deputation of this Council wait upon Vice-President of the Privy Council to press upon him the necessity of using every means in the power of the Privy Council to prevent the spread of foot-and-mouth disease, which is now increasing throughout the kingdom to an alarming extent." This proposition was seconded by Lord Tredegar, and commented upon by several members of the Council, in reference to the question of the additional restrictions which the Council should recommend to Mr. Forster. Ultimately the motion was carried unanimously, as well as a rider, on the motion of the Earl of Powis seconded by Mr. Thompson, naming a committee to prepare the official statement of the views of the Council to be laid before Mr. Forster.

CHEMICAL.—Mr. Wells, M.P. (chairman), reported the recommendation of the committee, that pending the result of actions about to be tried at Leeds, the publication of the quarterly reports of the committee be deferred.—This report was adopted.

GENERAL: CARDIFF.—Lord Vernon (chairman), reported that in consequence of a communication from the leading agricultural implement makers, representing that the price of manufacture has been largely increased since the completion of their specifications, and suggesting that the prices advertised in the Society's catalogue should not be adhered to, the committee recommended that the secretary be instructed to insert a fly-leaf in the Society's catalogue to that effect. They also recommended that Mr. Corbett be requested to purchase 10 tons of straw in addition to that which he has already secured, and that in cases where exhibitors of cattle and sheep are prevented by the existence of foot-and-mouth disease or pleuro-

pneumonia on their farms from sending them to Cardiff, they be relieved from the payment of the fine for non-exhibition to which they are at present liable by the regulations of the prize sheet.—This report was adopted.

HOUSE.—Lieut.-General Viscount Bridport (chairman) reported that the committee recommended that the secretary be empowered to obtain an estimate for papering and cleaning the Council-room and library, and that the usual house cleaning be authorised.—This report was adopted.

SHOWYARD CONTRACTS.—Mr. Randell (chairman) reported that the showyard works at Cardiff were finished and ready for use; that the railway siding, the approaches thereto, and the water-supply in the show-yard had been completed by the local committee, and were also now ready for use; and that the contractor was entitled to his third payment on account, which they therefore recommended. A draft of the proposed agreement with the local authorities of Hull was submitted to the Council, with a recommendation that it be forwarded for approval to the Mayor and Town Clerk of that borough; and a plan for the Hull showyard was recommended, subject to such modifications as the Honorary Director may deem necessary. The committee also recommended that the list of queries annually sent to the towns competing for the Society's country meetings be revised.—This report was adopted.

The following noblemen and gentlemen were appointed a general Hull Committee: Sir Watkin W. Wynn, Bart., M.P., (chairman), Earl of Lichfield, Earl of Powis, Viscount Bridport, Lord Chesham, Lord Kesteven, Lord Tredegar, Lord Vernon, Sir Massey Lopes, Bart., M.P.; Sir A. K. Macdonald, Bart.; A. Bannister, C. Barnett, T. C. Booth, Edward Bowly, Charles S. Cantrell, D. R. Davies, J. D. Dent, M.P.; Joseph Druce, W. J. Edmonds, B. T. Brandreth Gibbs, Richard Hornsby, C. Wren Hoskyns, M.P.; Mayor of Hull; Colonel Kingscote, M.P.; Robert Leeds, Richard Milward, Charles Randell, R. C. Ransome, M. W. Ridley, M.P.; Joseph Shuttleworth, William Torr, James Webb, William Wells, M.P., Charles Whitehead, Jacob Wilson, the Stewards.

A letter from the Secretary to Her Majesty's Commissioners for Annual International Exhibitions, in reference to an exhibition of agricultural products used as food in 1878, having been read, and Lord Portman having stated that he was not officially cognisant of the communication, it was moved by Mr. Thompson, seconded by Mr. Wren Hoskyns, M.P., and carried unanimously:

That the letter of the Commissioners be referred to Lord Portman, and that the Commissioners be informed that the further consideration of their request will be deferred until the Commissioners have had the opportunity of conferring with Lord Portman, the especial representative of the Council on this subject.

A letter from the Agricultural department of the Argentine Republic was ordered to be acknowledged, and was referred to the Journal Committee for further consideration. An application for the loan of the Society's plough dynamometer was refused, not having been made by an agricultural society.

THE FOOT-AND-MOUTH DISEASE. — The following deputation from the Council of the Royal Agricultural Society of England was received by the Right Hon. W. E. Forster, M.P., Vice-President of the Privy Council, at the Privy Council Office, on Thursday, July 4th: Sir Watkin W. Wynn, Bart., M.P., President; Earl of Powis; Hon. Wilbraham Egerton, M.P.; Sir T. Dyke Acland, Bart., M.P.; Colonel Kingscote, C.B., M.P.; Mr. J. Dent Dent, M.P.; Mr. T. Statter; Mr. H. S. Thompson; Mr. W. Torr; Mr. W. E. Welby, M.P.; and Mr. H. M. Jenkins, Secretary.

Sir WATKIN WYNN having introduced the deputation, Mr. H. S. THOMPSON (of Kirby Hall, York) stated that the Council of the Royal Agricultural Society were anxious to bring prominently before the notice of the Government the fact that foot-and-mouth disease in an unusually virulent form is at the present time causing great loss of meat, both by loss of condition in, and death of (particularly in the case of young stock) the animals attacked, and by the fear of the disease inducing farmers to send cattle to market before they have arrived at the proper age and condition. The evil arising from this latter effect of the prevalence of foot-and-mouth disease he regarded as highly important, because it was impossible to replace the stock thus prematurely sold, and the pastures could therefore not be stocked as they should be in the interests of both the producer and the consumer. In this way both the immediate and the future supply of meat was prejudicially affected, and the question had become so serious that all possible precautions were requisite to prevent the transit of diseased animals. With reference to the precautions needed Mr. Thompson stated that the experience gained in his own county showed that outbreaks of foot-and-mouth disease almost invariably followed the importation of Irish cattle into a district. He attributed this in great measure to the fact that the restrictions at present existing are not thoroughly carried into effect, in consequence of the authorities in many large towns refusing to insist upon their being properly enforced. He thanked Mr. Forster, on behalf of the deputation, for the firmness with which he had withstood the pressure put upon him by deputations of a certain class, the objects of which were more easily analyzed after the event than at the moment. For instance, persons interested in the cattle trade at an inland town would get up a strong deputation to protest against the slaughter of cattle at a seaport, on the ground that the inhabitants of the latter would benefit by the reduction of the price of meat there at the expense of a populous inland town.

Mr. FORSTER asked whether Mr. Thompson referred to home or foreign cattle; because the Privy Council was responsible for the importation of foot-and-mouth disease by the medium of foreign cattle, but they were not in any way responsible for the result of the movement of home stock.

Mr. THOMPSON replied that he referred specially to the consequences arising from the importation of cattle from Ireland, and expressed the hope that the Privy Council had the same power over Irish as over foreign stock.

Mr. FORSTER having replied to this in the negative, Mr. THOMPSON read the following series of resolutions passed by the special committee appointed by the Council of the Royal Agricultural Society at their meeting on Wednesday:

1. That the foot-and-mouth disease, in an unusually virulent form, is at the present time extensively prevalent and rapidly increasing.
2. That in the case of both cattle and sheep it causes great loss of condition and a certain per-centage of deaths, especially amongst the young stock.
3. That the supplies of meat available for market are in consequence materially diminished and the price proportionately enhanced.
4. That both at the shipping and landing ports in the Irish Channel the precautions requisite to prevent the transit of diseased animals between the two countries are grossly neglected, and in many of the great towns in the interior of the country a great want of vigilance is also observable.
5. That under these circumstances the Royal Agricultural Society feel it their duty to represent strongly to the Government the serious mischief hereby arising, and to urge them to call upon the magistrates and municipal authorities in their

respective districts to adopt such restrictive measures as shall seem to them best calculated to abate the evil, and also to insist on the regulations recommended by the Inspectors of the Veterinary Department being promptly and efficiently carried into effect.

(Signed) W. W. WYNN, President.

Mr. FORSTER having asked whether the first resolution had been arrived at by the Council, in consequence of definite information in their possession,

Colonel KINGSCOTE, C.B., M.P., stated that many members of the Council were in a position to prove the fact, each one for his own district. He could himself, for instance, prove that the Bristol market was the great centre of infection in his part of the country (Gloucestershire), and from that market the diseased animals went to Gloucester, Chippenham, Devizes, and other places, and spread the disease through the counties of Gloucester, Somerset, Wilts, Dorset, Hereford, &c. In the dairy districts the disease had lately become exceedingly virulent, and, in one respect, that could not be shown by statistics, namely, in the large number of cows that had cast their calves.

Mr. FORSTER said that before going further it might be desirable that he should acquaint the deputation with what the Government had actually done; but, first, he would state, entirely apart from the assurance which a Minister felt it his duty to make on such occasions, that he was especially glad to see a deputation on such a subject from the most important and influential agricultural society in the kingdom. The Government were very glad, also, to receive suggestions from so important a body, particularly as foot-and-mouth disease had given them more trouble than anything else. It was one of those maladies that was bad enough to do serious mischief, and yet not bad enough to allow of strong precautionary measures such as the cattle-plague would justify. When the Cattle Act was passed, great doubt was expressed as to whether foot-and-mouth disease should be included in its provisions, and even influential representatives of agricultural districts had doubted whether it was right to include it. This Act prohibited the exposure of diseased animals for sale in the markets, and their conveyance along the highways, but it left most other matters optional with the local authorities, who, however, had the power to issue further regulations. Towards the end of 1869 there was a bad outbreak of foot-and-mouth disease, and the Privy Council issued a permissive order to the local authorities, authorising them to take further measures. Subsequently, the Council received applications from several counties asking the Council to make these measures compulsory. Accordingly they issued the necessary regulations, but found it impossible to work them, and the remedy was considered worse than the disease even by the agricultural public. The nature of the disease also varied, and while it was exceedingly bad in some parts of the country, in others farmers rather preferred that their stock should have it, as mothers preferred their children to get whooping-cough, while they were young. In fact, the Veterinary Department of the Privy Council was not supported in this matter by public opinion, and the continuance of compulsory measures would therefore have endangered the efficacy of their action with regard to pleuro-pneumonia, in which he believed that much good had been done. With regard to optional measures, some counties had insisted upon their being carried out, but others had not, and it had been found exceedingly difficult to obtain statistics showing the result in each case. He wished, however, that the Council of the Royal Agricultural Society would do two things: 1st., That they would inform him specifically, in

writing, what regulations they would recommend; and 2ndly., That they would use their influence with the local authorities to enforce whatever measures were in force. With regard to the foreign import trade, he considered that the agricultural interests had no right to complain against the Government, as if the existence of foot-and-mouth disease were discovered in a cargo of foreign cattle, not only the diseased animals, but the whole cargo were immediately slaughtered. This he considered an exceedingly strong measure, and only justified by the infectious nature of the disease. But it appears that no regulations will keep it out, as it has become an indigenous disease, and the reason why these restrictions are kept in force is that there is no other check upon the foreign trade, while there is over the home trade; and unless it were made the interest of the producer to send healthy animals, it would distinctly be his interest to send unhealthy ones. This view he had maintained against very strong deputations, but he had yielded so far as to allow the movement inland of healthy beasts from an infected cargo, provided that the railway could be isolated from other stock traffic; but no town had yet been able to comply with this condition. It was only necessary for two things to be said—viz., that meat was very dear, and that the Government regulations pressed heavily upon the importation of stock, to lead people to the inference that the Government made meat dear. With regard to Ireland, he held that it was impossible to treat it except as part of the United Kingdom. At the same time he must admit that it seemed unfair to those interested in the foreign trade to insist upon their submitting to regulations which were not exacted in the case of Irish cattle. At the present moment the regulations in force in Ireland were the same as those obtaining in England, and as a recent deputation had strongly urged him to expunge foot-and-mouth from the Act, he considered that the regulations were now, at least, a reality. The Privy Council had from time to time, also, sent communications to the local authorities urging them to carry out the provisions of the Act. They had also recently undertaken the appointment of the veterinary inspectors, who were formerly appointed by the Customs. The Privy Council are now, therefore, responsible for the inspection of foreign cattle at the ports of landing. As to the home trade, the Government can do no more than (1) call the attention of the local authorities to the subject, and this is very often done; and (2) send an inspector to investigate the circumstances attending a bad outbreak of disease. If, however, the Society would make any positive and precise suggestions, he would undertake that they should receive the most careful consideration. He also suggested that the Society should use its influence with the farmers to use greater care, and on the local authorities to see that the provisions of the Act were complied with.

Sir WATKIN WYNN having asked whether the boats plying to and from Ireland are properly examined, and Mr. STATTER having stated that, in his opinion, these vessels are the most fruitful centres of infection,

Mr. FORSTER replied that in consequence of reports that had been received by the veterinary department, he sent an inspector to Bristol, and afterwards issued an Order in Council, of a very strong character if the local authorities would see it carried out, having for its object (1) to diminish cruelty, and (2) to provide for disinfection. Although a strong deputation had protested against the proposal, it was afterwards settled in concurrence with the interested parties. He considered that the Society might usefully exert pressure in this matter also, but that it was impossible for the central government to do more than

give power to the local authorities; and public opinion would not sanction the Government taking the power out of their hands.

Mr. TORR (Aylesby Manor, Lincolnshire) mentioned the increased virulence which was characteristic of the present outbreak, and chiefly its greater effect on the feet, so that the animals cannot bear travelling. He also gave an account of the serious losses which had been incurred by himself and others, particularly in lambs and calves, young and breeding stock suffering more than feeding beasts.

Mr. FORSTER asked whether the local authorities had made use of the powers which had been given them by the Privy Council?

Mr. TORR was not certain on this point, but as Ireland had been kept clear of cattle-plague by the strong restrictive measures adopted by the Irish Government, he held that Ireland ought now to be prevented from supplying us with foot-and-mouth disease by our insisting on the examination of stock before they leave Ireland.

Mr. FORSTER said that this suggestion should be made to the Irish Government, as the Privy Council had no power in the matter, although they had suggested the appointment of an inspector, and other measures which had been adopted by the Irish Government.

Mr. J. DENT DENT, M.P., observed that the evidence laid before the Transit of Animals Committee, of which

he had been a member, went to show that the condition of the vessels was the great cause of the propagation of infectious diseases. He presumed, however, that the inspector might inspect these vessels.

Mr. FORSTER replied that it rested with the Local authority to prosecute in case of noncompliance with the regulations, but the Central Government might put the Local authority on their defence in case of their failing to do so.

The EARL OF POWIS remarked that importations from Ireland were confined to three or four centres, from which infection was spread all over the kingdom. Therefore efficient inspection need not be very difficult to control.

The Hon. W. EGERTON, M.P. considered the existing regulations sufficient if properly carried out.

Mr. THOMPSON, in reply to the suggestion made by Mr. Forster, that the Council of the Royal Agricultural Society should send in writing the particular recommendations that they wished to make, stated that they would probably defer taking that step until after the completion of an investigation which they had organized to take place during the summer and autumn. At present he hoped that the Government would insist upon the existing regulations being complied with.

The deputation then withdrew, after thanking Mr. Forster for his courtesy.

THE PETERBOROUGH AGRICULTURAL SOCIETY.

The early bird gathers the worm, and after a fly of a couple of hours by the 6.30 from King's Cross, we join a *rara avis* or two pegging away at the well-spread table of the Angel, Peterborough, where the waiter whispers in our ear with some awe, "Are you a judge, sir?" There must have been something in "our vacant eye, our vest unbuttoned, and our wig awry"—for July the 4th was a smoking hot day—denoting the majesty of the bench, as when we were taking stock of the nicely laid-out yard and well-housed animals we were again faced by a young gentleman, who in an inquiring tone said, "You are a judge?" We did not tell him that he was another, although perfectly satisfied on that point, but felt half inclined to accept the badge of office held out for our button-hole, as it is a grand thing to be decorated like a hero, and to strut about amongst one's fellows with all the importance of a little man in a big hat. As we said before, the yard was nicely laid out, and there was evidently a wish on the part of those in office to do the thing that was right, and had all the classes been numbered on the chest, as some of the hunting classes were, we should have had little to find fault with. But this was not the case with the yearlings, hunting brood mares, and all the agricultural horses, who for some reason had their number on one side of the head, that side invariably being towards the judges, so that it was impossible for the spectators to tell what or whose they were, although supplied with a well got up catalogue at sixpence. This marred to a great extent the pleasure of the meeting. It is a great pity, but so it is, after the times we have called attention to this very thing, meeting after meeting in fact, and in that kind and encouraging manner which would have set a right-minded, well-fed costermonger's donkey off full gallop in the right direction long ago. But we have heard of another driven by an elderly lady in a basket-carriage that required different treatment, for if ever her ladyship wanted him to go one way, she turned his head the other, when Jerusalem whipped round in an instant, and with ears laid and head down tore

away with all his might. We fear we shall have to try the old lady's plan after all. Peterborough is not a great meeting, but there are quite sufficient animals to look through in a day, if of the right sort, as the horses, including ponies, were only a few short of a hundred-and-fifty; and though the cattle did not number thirty, still they were a picked lot, with many from well-known herds. Of the sheep, when we have awarded fair praise to Mr. Marshall's very useful two-shear Lincoln ram, and to a really nice pen of three-shearing half-bred wethers, taking somewhat after the Biddenham flock, with heads well up, we may dismiss the others with "Right about face, march," as it was a difficult thing to pick out the worst. The grunters, who in heat gasp like fish out of water, were on a par with the sheep, and when we have noticed two pens of the white small breed, a boar of Mr. Brown's and the Marquis of Huntley's sow and eight youngsters, both useful well made pigs with quality and hair, we leave the others with their husks in the care of the "prodigal sons," who had a much easier time of it than the brawny kids of Vulcan toiling as they were at their hissing forges in a broiling sun, spurred on by the dream of ambition or the chance of prize-money—two to one on the latter. Sheltered in a tent that in its time might have served to hide from the outer world smoking rounds and sirloins and the mid-day feasting of congenial souls famous for tipping off bumper toasts as well as glorious with the vociferous "Three times three, and one cheer more!" stood the cattle chewing the cud in peace and quietness; for there was not a bellowing one among them.

The first on the list was a fat ox of Mr. C. Ward's, and anything but a bad one, although beaten by Mr. G. Wortley's roan four-year-old, by Imperial Count, whose good looks and great promise have already been set forth in the columns of *The Mark Lane Express*. Five pounds did not bring to the scratch a fat cow or heifer, but King Victor, a white Shorthorn bull, rising three, by King Bertram, is a thickset useful animal, and carried off the tenner against

three competitors not remarkable for form, one having a couple of very comfortable vacancies behind his shoulders, without purchase or examination, for two gentlemen of the small white breed. King Victor was successful at Cambridge and Lyun. The best bull under two years old is by General Napier, out of Bianca, and is of fair form, while the second, Monarch, is narrow and anything but a level animal. Telemachus the 2nd, with all the quality of his sire, was the best bull calf under a year, for although the commended Fitz Killerby is a strong hardy well made fellow, still the two animals will no more bear comparison than the warbling of Jenny Lind and the bellowing of Braham. The best cow having had a calf, and still in milk or breeding, was a neat red one by Prince of the Empire; and the second, a fine broad-backed, roomy roan, falling away a trifle forward. There were some other nice cows in this class. We now jog on to Verona, and find one of the best animals in the yard, as well as the best heifer in calf under three years old. Molly Gwynne, with plenty of quality, is a thickest buxom wench, with anything but true symmetry, but still she defeats the slight-made wicked-eyed Penelope, "by Telemachus," according to the catalogue, but not to classic lore, as here, though a man may not marry his grandmother, he is made the father of his mother! Mr. C. Daintree, a name well known in the coursing world some years back, exhibited a handsome heifer in this class by Emperor of the Ocean, out of a common cow. Bad was the best heifer-calf.

The horses were the strongest part of the show, and at half-past ten judging commenced, a trio stepping into the ring that it is supposed

When they look a horse in the face, Sir,

Ah, they do know

Whether he is a hunter, hack, or racer,

Ah, they do know!

Clever fellows if they do; but they have been well selected, as here is one that will go for a coarse one, while another will stick out for blood, and the third comes from a part of the country where they know a thing or two. The first lot in were the hunters of five years and upwards, without any condition as to weight; and a good thing, too, as oftentimes when there is a condition of equal to 15 stone and upwards the prize money goes to the "stand-still horse," some brute more adapted to carry a pack or run in a brougham than to go across country, even without Daniel Lambert up. But why encourage these overgrown men or horses? What do we gain by coarseness? Why try and add inches to our stature or to our horses if of no avail? as it has been proved over and over again when it comes to a tug of war between sinew, stamina, and wind, that the medium sized man and horse are the best, as a rule; there are exceptions, of course. It was not a grand class, and three out of the fourteen belonged to Mr. Percival, but not the pick of the Wansford stable, as we should think. The contest, if there was any, was between Marmalade, Mr. Whitehead's brown gelding, and Forester, by that light-necked savage Footstool. Marmalade we have noticed oftentimes in better company, and here he was no doubt the best looking horse by far, still he does not move kindly, and dishes with his near foreleg; and we don't quite like him, although we hear he is the best hunter in Yorkshire, and that a well-known M.F.H. has offered five hundred for him; but, by the bye, we have heard this story tagged on to so many horses in the show-yard that it is almost as old to us as the dealer's pedigree, "by Whalebone, out of a well bred mare," or the Welshmen's everlasting one at the fairs, "By Lismahago; yes, indeed! sould again!" But here is Marmalade with one of the bench up who sits him as

stiff and erect, as does the Monument Fish-street Hill, and "By all the blood of all the Howards!" no one could make less of him. The second is a compact hardy quick-looking horse, adapted for a confined country, but still when you look at him you are reminded of the collar, and almost hear the grating of wheels. Forester had too much flourish in his action. Mr. Staplee's Sparrow Hawk had form, and could go, but was marked with the irons, and Mr. Earl, a brown horse of breed. The prize four-year-old black gelding, by Martext, is very hunting-like throughout, but not up to great weight, but he can go, and is very wiry-looking. If he has a fault it is in the base of the hock, which is rather small. Mr. Hill's bay, the second horse, is a deep muddled useful nag, but rather deficient of quality; still as good a goer as any in the yard. Moslem, by General Hess, the second four-year-old at Islington this year, has not improved in manners, and with his back roached and tail stuck into his quarters, the judges were quite right in not giving him a prize, although the finest looking horse. There were four or five nice yearling colts and fillies for hunting purposes in a class of fifteen or sixteen, the prize filly being a bay by Optimist, very neat and corky throughout, and, barring a slight heaviness at the points of her shoulders, all right; but is she not too neat to grow into as grand an animal as the Hon. C. W. Fitzwilliam's chesnut by Bonnyfield promises to do, with his well-laid reaching shoulders and quarters? Mr. Goodliff's chesnut colt and filly by Tomtit were the next fancied. The yearlings by Rivet were such a sample that if they are the progeny of fair shaped mares, the sooner he is out of it the better for the country. In the hunting brood mares there was some hesitation as to whether a fine old brown hunting-like mare with more bone than blood, and a nice short legged thoroughbred-looking mare by Lambton or Magnum should have the prize; but at last blood told, as it always will in a long thing. Mr. R. Smith and Mr. Goodliff had two good looking chesnut mares or breed. In the hackney mares or geldings Mr. Hornsby's Hilda, a first at Islington, came in for honours before she was fairly put through her paces; at any rate not in the style she won in town. Mr. Core had a nice-looking grey called Stamford, and Mr. Cooke an old bay mare, Adelaide; and there were one or two more, especially a chesnut that went straight and well; but the class was badly numbered. The cart-horses were more useful than ornamental, the brood mares and foals being about the best, headed by a nice stamp of mare, a well made, lively, active-looking chesnut, with limbs nicely placed, and the winner of six and twenty prizes. The second of Mr. Vergette was a useful one, of which there were several others in the class. Mr. Vergette was also owner of the best filly rising three—a fine grown one with great quarters. The colts rising two were poor, the first being anything but perfect in his middle, while the prize filly was of very good form, and a black with a white face. There were no prizes for stallions of any kind. The gorse hurdles were set in order, the stand was fast filling with well-dressed ladies, and the fun of the fair was just going to begin—but this is beneath our notice, which is one way of getting out of it, as the groom said when he got hung in the stirrups and slipped out of his boots.

Messrs. Amies and Barford had a show of machinery in motion, backed by mowers and reapers; while from the number of carts and carriages exhibited by townsmen Peterborough would seem to be a kind of local Long Acre.

PRIZE LIST.

JUDGES.—HORSES: R. Young, Norwood House, Beverley; J. E. Parsons, Charwelton, Daventry; R. G. F. Howard, Temple Bruer, Lincoln. CART HORSES: J. H. Wood,

Humberstone, Great Grimsby; P. Plowright, Manca, Cambridgeshire. **SHOEING HORSES:** T. D. Broad, Bath. **CATTLE:** C. Bland, Gadsby Hall, Lincoln, and H. Martin, Littleport. **SHEEP:** W. Chatterton, Hallington, near Louth; J. Treadwell, Upper Winchendon, Aylesbury. **PIGS:** W. Chatterton, Hallington, near Louth; J. Treadwell, Upper Winchendon, Aylesbury. **BUTTER:** W. B. Tegetmeier, London.

HORSES.

Hunter, five years old or upwards.—First prize, £20, J. M. T. Musgrave (Marmalade); second, £10, W. Whitehead. Highly commended: S. Stokes (Forester). Commended: Mr. Staplee (Sparrow Hawk).

Four-year-old gelding or filly, for hunting purposes.—First prize, £10, W. Wood; second, £5, J. Hill. Highly commended: Hackney mare or gelding, 15½ hands high.—First prize, mended: W. Core (Moslem). £7, P. Hornsby (Hilda). Highly commended: J. Core (Stamford).

Horse (mare or gelding), whose action in harness is best, particular attention to be paid to pace, not less than 15 hands 2 inches high.—First prize, £7, G. Stapleton; second, £3, J. Odam (Marquis).

Pony (mare or gelding), not exceeding 12½ hands high.—First prize, £5, L. Carpenter (The Claimant). Highly commended: T. Callow. Commended: T. Bingham (Charlie).

Yearling colt or filly, for hunting purposes.—First prize, £10, A. Goodman, jun. Highly commended: C. W. Fitzwilliam. Commended: J. Goodliff.

Mare suitable for hunting purposes, and foal at foot, got by a thorough-bred stallion.—First prize, a silver cup value £10, J. Goodliff. Highly commended: S. Middleton. Commended: J. T. Smith.

Cart colt, rising three years old.—First prize, £3, P. Griffin. Commended: T. and S. Fyson (Boxer).

Cart filly, rising three years old.—First prize, £3, T. H. Vergette. Highly commended: J. A. W. Underwood. Commended: J. Turner.

Cart colt, entire or otherwise, rising two years old.—First prize, £3, R. Hopper. Highly commended: T. and S. Fyson (Young Honest Tom). Commended: H. Cooke (Napoleon).

Cart filly, rising two years old.—First prize, £3, G. Fullard. Highly commended: T. H. Vergette.

Cart mare, and foal at foot.—First prize, £5, J. Tomlinson; second, £2, T. H. Vergette. Highly commended: L. Shepperson. Whole class commended.

Special Prize.—To the owner of the best yearling, by Rivet.—First prize, a silver cup, value £5, R. Dods. Commended: G. G. Vergette.

SHOEING HORSES.

Hunting horses.—First Prize, £6, J. Newton; second, £3, H. Ford, Walton; third, £1, R. Cooper, Polebrook.

Hackney or carriage horses.—First prize, £3, H. Banham; second, £2, J. Cooper.

CATTLE.

Fat ox.—Prize, £10, E. Wortley.

Bull, above two years old.—Prize, £10, J. How (King Victor). Commended: C. W. Griffin (Nestor).

Best bull under two years old.—First prize, £7, H. Lamb; second, £3, C. W. Griffin (Monarch).

Bull calf, under one year old.—First prize, £2, Marquis of Exeter (Telemachus 2nd). Highly commended: J. How (Fitz Killerby).

Cow, having had a calf within 12 months, and being still in milk or a breeding state.—First prize £5, E. Wortley; second, £2 10s., J. Poles.

Heifer, in calf, under three years old.—First prize, £4, J. How (Verona); second, £2, S. Vergette.

Heifer, under two years old.—First prize £3, second £1; Marquis of Exeter (Molly Gwynne and Penelope).

Heifer calf, under one year old.—Prize, £2, J. Turner.

Best animal exhibited in any of the seven preceding classes.—The Rowell cup (special prize), value £10, J. How (Verona).

Extra stock.—Commended: J. Buck; C. W. Griffin (Lady Blanche).

SHEEP.

Long-wooled ram, of any age, open to all England.—First prize, £10, W. F. Marshall.

Pen of ten long-wooled ewes.—First prize, £3, J. Turner; second, £1 10s., J. Whitwell.

Pen of ten long-wooled shearling ewes, bred in the district.—First prize, £3, S. Middleton; second, £1 10s., W. B. Giles. Commended: J. Whitwell.

Pen of ten long-wooled ewe lambs.—First prize, £3 W. B. Giles.

Pen of ten long-wooled wether lambs.—First prize, £3 W. B. Giles.

Pen of ten short-wooled wether lambs.—First prize, £2 W. Core.

Pen of three shearling wethers of any breed, open to all England.—First prize, £3, W. Wells, M.P.

PIGS.

Boar of the large breed, open to all England.—First prize, £3, W. Mann; second, £1, W. Chapman.

Boar of the small breed, open to all England.—Prize, £3, J. Brown.

Breeding sow of the large breed.—Prize, £2, G. Gaunt.

Breeding sow of the small breed.—First prize, £2, Marquis of Huntly.

BUTTER.

Four pounds of best fresh butter.—First prize, £1, Mrs. Grieves; second, 10s., E. Skrimshire. Highly commended: Mrs. Isaacs.

THE DINNER.

The Marquis of HUNTLEY, who presided, said: According to Mr. Mechi and Lord Dunmore, two advanced agriculturists, we do not know much about agriculture yet. The adoption of machinery, whilst being a benefit to the employer, rendering it needless to employ so many hands, would enable the employer to pay larger wages. The labourers now complained that they had not shared in the advance that had been made in agriculture. Whether that was so or not he would not pretend to determine. He regretted that the prevalence of the foot-and-mouth disease had militated against the success of the show of cattle and sheep; and although he observed that the returns of the Norman Cross Division were high, he hoped the disease would soon pass away.

Mr. PARSONS, for the judges, had no doubt there would have been a larger show of stock if the unfortunate foot-and-mouth disease had not been so prevalent.

The Bishop of PETERBOROUGH believed that in any assembly of Englishmen there was no toast that was more certain to receive a generous consideration than the toast of those with whom they might have been engaged in any recent difference. He was going to propose to them the toast of "The Labourers," and he ventured to say this, that it would be a very evil day for agriculture, and a very evil day, therefore, for our country, in which the toast of the labourers should be a really unwelcome toast in an assembly of farmers. He said this because he was quite certain that every farmer present felt that his own material interests were deeply bound up in the welfare and prosperity of those who tilled the soil for him. He was told that the toast was rather a delicate and difficult one, and those who said so did him the compliment of asking him to propose it. He took it because he didn't think it the least delicate or difficult. He was not in the least afraid of proposing it. He should be afraid of proposing the toast of "The Labourers" in an assembly of labourers, just as he should be afraid of proposing the toast of "The Farmers" in an assembly of farmers, because there would be the temptation to flatter and speak civil things to those of whom he was speaking. But he should not be ashamed to propose "The British Farmer" in any assembly of British labourers, and he was not afraid of proposing "The Labourers" in any assembly of British farmers. There had been recently some antagonism of feeling—there never could be really any antagonism of interest—between the British labourer and the British farmer. He was quite certain that whatever really promoted the interests of the one, would really promote the interests of the other. In the question between the British farmer and the British labourer of the present day, they found one aspect of that question between labour and capital which was convulsing and agitating the country from one end to the other. He had no right, as his Master held before him, to make himself a judge and a ruler over con-

tending parties. And when he spoke of the duties of labour to capital, and the duties of capital to labour, one thing they, as ministers of the Church of Christ, dreaded and trembled to see was the antagonism of class against class. The one thing they dreaded of all others was, not to see one class standing up for its rights, as every class of Englishmen ought to do, but one class standing up for its rights, forgetting it had duties to every other class. If he spoke to them of the rights of capital, he should speak of the duties of capital; if he spoke of the rights of the labourer to the labourer, he should speak of the duties of the labourer. And when they said the right of the labourer was a fair day's wage for a fair day's work, it concerned both employer and labourer as to what was a fair day's work and a fair day's wage. As a member of the outside public—although farmers were members of that public—he was quite satisfied to leave that question to be settled between the labourer and the farmer upon one condition, that the labourer and the farmer were left alone to settle it. He was perfectly satisfied that in the long run the old kindly relations that had sprung up, like deep-rooted oaks from the soil of England, and that knitted together the farmer and the labourer—the farmer with the labourer that was born and worked upon his land, and the labourer with the farmer of whom he earned his bread—if they were left alone, left to the natural and wholesome growth of time and season, would not ripen into any poisonous fruit. But what he dreaded was the interference—what he dreaded and deprecated was the uncalled for, the fussy, the officious, the selfish, and mischievous interference between labourers and employers of those who had nothing to do with the matter. He should not be afraid—he did not think anyone there was afraid—of the honest, straightforward, manly gathering together of labourers engaged on the farms of a parish, who thought they had a grievance, and who in the plain, homely, straightforward language of Englishmen chose to tell out their grievances. He was quite sure the farmers would tell their grievances if they had any, and his clergy would tell theirs if they had any, and, speaking for his own order, the bishops would tell their grievances if they had any. Therefore he was not afraid of men in any rank of life telling their grievances. But, as he had said before, he didn't like your mischief-making meddler. He did not like to hear of men, who never owned an inch of land, who never had a labourer, coming to settle these questions between farmers and their labourers. Before a man meddled in any matter he ought to know something about it; and what he dreaded for our labourers, as he should dread it for our farmers in like circum-

stances, was the attempt to make political capital out of it by professional agitators. They would allow him to use a simile. They had to-day been looking at all manner of beasts. Glad he was they were tolerably free from foot-and-mouth disease. Mouth disease was a very prevalent disease in the political world. Naturalists had told us that when any animal in any flock became diseased or sickly, that the kites, and the crows, and the ravenous birds of the neighbourhood, led by a very keen and carnivorous instinct, immediately perch upon its head, flap about its ears, and peck out its eyes. And they might know the sickly beast by the flapping of the wings, and the loud cawings of the birds who hoped to feed upon the animal. They knew that the labourer of this country was in the position of that unhappy and maimed member of the herd or flock. Whether he had or had not his full share of the increasing prosperity and wealth of the country was a question which time must decide, and which must be decided by that collision of interest, by that free expression of opinion, by that effort on one side or the other, which ever did decide such questions in our free country. The labourer would not see his way a bit the better because these professional kites and crows came to perch upon his head and busy themselves and bother him by flapping about his ears. They might safely leave the British farmer and the British labourer to settle their differences between them; and if he had one word to say to them, as one who was neither farmer nor labourer, but who was bound by his office to feel the deepest interest in the prosperity and well-being of both, it was this, that the principles of the religion of which he was a teacher and pastor, and of which every one of them were members, in teaching them justice and charity, in teaching them to distrust their own judgment where the interests of others were concerned, in teaching them to follow out the golden rule, to do unto others as they would be done by—that those principles really acted out would give the only true, the only wise, and the only happy solution of that difficulty which, he trusted and believed, was but a passing difficulty between the British farmer and the British labourer. Therefore, it was with full confidence that the old kindly feelings between the British farmer and the British labourer were not dead; and, in spite of the deliberate endeavours of strangers to extinguish them, they would not be extinguished, and, without the least hesitation, difficulty, or doubt as to how his toast would be received in that assembly of British farmers, he gave them the health, best interests, and future well-being of the British labourer (prolonged cheers).

THE SUFFOLK AGRICULTURAL ASSOCIATION.

MEETING AT BURY ST. EDMUNDS.

The Shorthorns did not muster in great force at Bury, as, with the exception of a few of Mr. Catchpole's entries, they were but a middling lot. In consequence of Mr. Barnard's sudden death his stock was not sent, and there were very many vacant stalls—34 out of 106; foot-and-mouth disease, or the fear of it, as at Cambridge, having its influence upon the show. It is spreading fearfully through the county, and of a much more virulent type than formerly. Mr. Garne did not put in an appearance, his show stock being ordered home, most probably to prepare for Cardiff. The contest was between Essex and Suffolk; but thanks to Mr. Catchpole, the Essex people were not able to take away all the prizes. Essex was represented by Messrs. Chaplin, Upson, Tippler, Crabbe, and Green. The strongest class was that of the cows, where some good animals were exhibited. Mr. Chaplin's Maid of Honour, first at Halstead, had to take second place to Mr. Catchpole's Daisy, a cow of great substance and good form. There was a fair, but not a large show of the Suffolks, most of the prizes going to the Lynn winners; while in some of the classes, owing to the absence of Lord Sondes as a competitor, certain commended animals in

Norfolk took a higher position here. The best class of the whole, and with the strongest competition, was that of the Channel Islands cows, as a better show has been seldom seen. They were particularly handsome, besides showing great dairy properties, and the whole class was highly commended; while Mr. Gilby's Cup cow at Halstead was not placed here, as this will prove the strength of the entry. In the sheep classes the competition was small, with the exception of the Southdowns, Mr. Colman here, as in Norfolk, taking the lead. He appears to be getting some good animals together. The show of pigs was good, Mr. Sexton appearing to be the chief winner, and the Duck-erings, of course, have the best of the white classes. The thoroughbred stallions were a moderate lot, but the roadster sires were better, and Quicksilver, the winner at Cambridge, was first here; the Halstead winner, a pretty goer, but undersized and too cobby, though second. There were only two in the coaching class, and Tom Brown won easily, as he did also the Duke of Hamilton's Cup for the best stallion in the showyard. The other, a light, leggy three-year-old was fortunate enough to be commended. The prize hunting mare has heavy

shoulders and bad action, and with Beckford no doubt is the more valuable nag. The Duke of Hamilton's pair of roans (once Lord Hastings') were far the best "pair," but as one had a very "dickie" leg Mr. A. Ransome got the colours. The soundest of His Grace's pair, however, won the single harness special prize. The hunting mares and foals were a very moderate lot indeed, and not worthy of comment, and the prize hunting mare has heavy shoulders and wide chest, and is a slovenly goer. Col. Wilson's chesnut was better. The four-year-olds were perhaps the worst class that ever entered a showyard. In the three-year-olds, Old Silverlock's son was decidedly the best, with a deal of old-fashioned character if he does not get too high. The second has bad shoulders, and Mr. "Paganini" Smith's thorough-bred chesnut was far better—one of Sir George Strickland's sort. There was nothing worthy of note amongst the hackney classes, and the pick of the ponies was Lord Rendlesham's little chesnut mare. One of the cart-horse judges spoke very highly of his section, especially of the yearlings and two-year-olds, and of the latter as being the best he ever saw, with the breeders going more for substance; while the President declared that he never saw a more magnificent lot of cart mares. Cup-bearer was, as usual, at the head of the stallion class, but he was beaten for the Champion prize; and a yearling by him, called Carlton, very unreasonably, as it was thought, put out of his place.

No premiums are offered for machinery, but there was a strong show of implements, distinguished as light goods and heavy goods, in which sections the following were exhibitors: Light Goods.—Tipper, Balsale Heath, Birmingham; Scrivener, Wetton, and Gill, Ipswich; Earthy, Stowmarket; Meadows and Bennett, Ipswich; Silverster; Smith, Halesworth; Hudson and Jaggard, Bury St. Edmunds; King, Coggeshall, Essex; De Leon and Andre, Rathbone-place, Oxford-street, London; Hilton, Lichfield-road, Birmingham; Day, Son, and Hewitt, Dorset-street, Baker-street, London; Bryan Coreoran, Witt, and Co., Mark-lane, London; Bradford and Co., Fleet-street, London; Kemp, Cambridge; Rands and Jeckell, Ipswich; Hills, Sudbury; Piper and Theobald, Norwich; Dodge, Upper Thames-street, London; Goddard, Ipswich; Hitchcock, Lavenham and Bury St. Edmunds; Grayson and Co., Bury St. Edmunds; Manning, Bury St. Edmunds; Packard, Ipswich; Taylor, Bury St. Edmunds; Andrews, Sudbury. Heavy Goods.—Tinsley, Ipswich; Dupont, Bures; Turner, Ipswich; Burrell, Thetford; Maynard, Whittlesford, Cambridge; Eddington, Chelmsford; Woods, Cocksedge, and Warner, Stowmarket; Smyth and Sons, Peasenhall; Ward and Silver, Long Melford; Murton and Turner, Kenninghall, Norfolk; Howard, Bedford; Bear, Sudbury; Warren, Wetherden; Boby, Bury St. Edmunds; Fowler, Leeds; Le Butt, Bury St. Edmunds; Ransomes, Sims, and Head, Ipswich; Garrett and Sons, Leiston Works; Bone, Framlingham.

The arrangements were good, the old Abbey grounds looking more beautiful than ever on Thursday, when there were crowds of visitors, the weather being all that could be desired; but the ground was badly mapped out. The desirability of having an East Anglian Society, as suggested by the Prince, was often discussed; but it appears these shows in each county are looked upon as an annual holiday and gathering, and, in fact, taking the place of the pleasure fairs, even for the lower orders a desirable change. With this feeling each county will like to retain its own institution.

PRIZE LIST.

JUDGES.—HORSES FOR AGRICULTURAL PURPOSES:—P. Portway, Stamford, Braintree; J. Thomas, Bletsoe, Beds;

D. Sewell, Beaumont Hall. RIDING AND COACHING HORSES: H. Thurnhall, Royston; W. Turner, Baddow, Chelmsford; G. Higgins, Bedford. CATTLE: C. Sturgeon, South Ockendon Hall, Romford; T. Fulcher, Elmham; C. Howard, Biddenham, Beds. SHEEP: H. Woods, Merton; T. Hawkins, jun., Smallbridge, Bures. PIGS: O. Hawkins, St. Osyth; J. Turner, Chyngton, Seaford. VETERINARY INSPECTOR: R. L. Hunt, Edgbaston, Birmingham. HORSE SHOEING: Professor Varnell, Belton, Great Yarmouth.

HORSES.

FOR AGRICULTURAL PURPOSES.

Stallion, having served not less than twenty mares in the county.—First prize, £20, R. Garrett, Carlton Hall (Cup-bearer); second, £10, S. Wolton, Butley Abbey. Highly commended: C. Boby, Alton Hall (Royal Prince); W. Byford, Glemsford (Volunteer); G. D. Badham, Bulmer (Sultan). Commended: N. Catchpole, Ipswich (Emperor).

Three-year-old entire colt, foaled in 1869.—First prize, £15, Col. F. M. Wilson, Stowlangtoft Hall (Heir Apparent); second, £7, G. H. Nunn, Bury St. Edmund's (Young Duke). Highly commended: M. Biddell, Playford (Duke). Commended: J. Grout, Woodbridge (Emperor).

Two-year-old entire colt, foaled in 1870.—First prize, £15, and cup, I. Rist, Tattingstone (Young Champion); second, £7, S. Wolton, Butley Abbey.

Best Suffolk stallion in three preceding classes—Prize, cup, value £26 5s., I. Rist, Tattingstone (Young Champion).

One-year-old entire colt, foaled in 1871.—First prize, £10, J. Berners, Ipswich (Emperor); second, £5, C. Lee, jun., Walpole (Carlton). Highly commended: W. Pollard, Raveningham, Norfolk (Young Duke). Commended: Executors of Patrick Stearn, Elmsett.

Mare with foal at foot.—First prize, £15, and cup, G. H. Cant, Mile End, Colchester (Violet); second, £7, Lieutenant-Colonel F. M. Wilson, Stowlangtoft Hall (Conquest). Highly commended: R. Capon, Dennington (Gyp). Commended: W. Noble (Duchess). Reserved: J. Read, Carlton, Colville, Lowestoft (Scot).

Foal, foaled in 1872.—First prize, £8, G. H. Cant; second, £4, J. Read.

Foal by Cupbearer.—Prize, cup value £10 10s., G. H. Cant.

Gast mare.—First prize, £10, H. Wolton, Newbourne Hall (Diamond); second, £5, Earl of Stradbroke, Henham Hall (Matchless). Commended: Lieutenant-Colonel F. M. Wilson (Victoria).

Three years old filly, foaled in 1869.—First prize, £10, W. J. Thompson, Thorpe, Colchester; second, £5, R. E. Loft, Troston Hall, Bury St. Edmund's (Duchess).

Two years old filly, foaled in 1870.—First prize, £10, E. Crowe, Denver, Downham Market (Flower); second, £5, Lieut.-Col. F. M. Wilson.

One year old cart filly, foaled in 1871.—First prize, £10, H. Scotchmer; second, £5, W. Cross, Ivy Cottage, Frating, Essex (Matchet).

Best Suffolk cart mare or filly in the yard.—Prize, the President's Cup, Earl of Stradbroke (Brag).

Best pair of plough horses, mares, or geldings, or mixed.—Cup, value £10 10s., the Earl of Stradbroke, (Matchet) and (Brag).

Best team of four cart horses, either mares, or geldings, or mixed, of any breed.—Cup, value £21., Lieut.-Col. F. M. Wilson (Bury Empress), ditto (Scot), ditto (Violet), ditto (Oxford Moggy).

RIDING AND COACHING STALLIONS.

Thorough-bred stallion for hunting purposes, having served not less than 10 mares in the county.—First prize, £20, J. Grout, Woodbridge (Little Hastings); second, £10, Duke of Hamilton and Brandon, Easton Park (The Beadle). Reserve: Major F. Barlow, Hasketon (Playfellow).

Stallion for coaching purposes, having served not less than 10 mares in the county.—Prize, £10, Major F. Barlow, Hasketon (Tom Brown). Commended: J. Grout, Woodbridge (The Squire).

Roadster stallion, having served not less than 10 mares in the county.—First prize, £10, W. Flanders, Fen House, Mildenhall (Quicksilver); second, £5, F. Branwhite, Long Melford (Defiance). Highly Commended: J. Reed Cooper, Manor House, Barton (Leiston).

Best stallion in the three preceding classes.—Prize, £15 15s., Major F. Barlow, Hasketon (Tom Brown).

Match pair of geldings or mares for carriage or phaeton purposes, not less than 14.2 hands high.—Prize, cup, £10 10s., J. A. Ransome, Ipswich (Mulatto and Quadroon). Highly commended: Duke of Hamilton and Brandon, Easton Park (Marquis and Prince).

Hunting mare, with foal at foot.—First prize, £7, E. Greene, M.P., Bury St. Edmunds (Minnie); second, £3, H. Rodwell, Ampton Hall.

Hackney mare, with foal at foot.—First prize, £7, E. Prior, Bury St. Edmunds; second, £3, Duke of Hamilton and Brandon (Jewel). Highly commended and reserved: J. Grout, Woodbridge (Lightfoot).

Hunting foal.—Prize, £5, M. Biddell, Playford. Highly commended: H. Rodwell (Musketeer).

Roadster foal.—Prize, £5, Duke of Hamilton and Brandon (The Beadle). Highly commended: J. Walker, Loudham Hall, Petistree (Defender).

Foal by Defender or Brennus.—Prize, cup, £5 5s., M. Biddell.

Foal by The Beadle.—Prize, cup, £5 5s., W. Thurlow, Hacheston.

Weight-carrying hunting mare or gelding, not less than five years old.—First prize, £10, W. N. King, Great Barton Place, Bury St. Edmunds (King Pippin); second, £5, Major F. Barlow, Hasketon (Beckford). Highly commended: Lieut-Col. F. M. Wilson, Slowlangtoft Hall.

Weight-carrying hunting mare or gelding, not less than four years old.—First prize, £10, J. Grout, Woodbridge (Alice); second, £5, W. Harvey, Timworth.

Weight-carrying hunting mare or gelding, three years old.—First prize, £7, Major F. Barlow (Blacklocks); second, £3, Major-General Sir Stephen Lakeman, Stoke Park, Ipswich. Commended: T. Smith, Banstead Manor, Cheveley, Newmarket (Talisman).

Weight-carrying hunting mare or gelding, two years old.—First prize, £5, Major F. Barlow (Guildford); second, £2, J. Dorlin, Elmstead, Essex (Tiptop).

Light-weight hunting mare or gelding.—Cup, value £10 10s., T. Harper, Northgate-street, Bury St. Edmunds (Kathleen). Commended: R. Capen, Dennington.

Riding mare or gelding, not under 15 hands high.—First prize, £10, G. D. Badham, Bulmer (Black Prince); second, £5, E. Greene, M.P., Bury St. Edmunds (Jessie). Reserved: E. Greene (Ruby).

Hackney mare or gelding, not under 14 hands high, and not exceeding 15 hands.—First prize, £10, J. Grout (Tinker); second, £5, Rev. W. F. Thursby, Bergh-Apton Rectory, Norwood (Black Prince). Highly commended: J. Gardner, Chevington.

Three-year-old hackney mare or gelding.—First prize, £5, W. M. Flatt, Wantisden; second, £2, Rev. E. Walford, Dallinghoo.

Two-year-old hackney mare and gelding.—First prize, £5, C. S. Scott, Thorp Morieux (Attraction); second, £2, not awarded.

Hackney mare or gelding, of not less than 14 hands high, nor more than 15 hands 2 inches.—Prize, cup, value 10 gs., Duke of Hamilton and Brandon, Easton Park (Marquis). Highly commended: J. Gardner, Chevington.

Pony not under 13 hands high, and not exceeding 14 hands.—Prize, £5, R. C. Cooke, Livermere. Specially recommended for a second prize: G. King, Gazeley.

Pony not under 12 hands high, and not exceeding 13 hands.—Prize, £5, Lord Rendlesham, Rendlesham Park.

Pony not exceeding 12 hands high.—Prize, £5, A. Ogilvie, Sizewell House, Leiston.

CATTLE.

Suffolk bull, not under two years old.—First prize, £10, J. J. Colman, M.P., Norwich (Cherry Duke); second, £5, B. Brown, Thursford, Thetford (Norfolk Duke). Highly commended: J. J. Colman, M.P. (Easton Duke). Reserved: J. Hammond, Bale, Norfolk (The Baron).

Suffolk bull, under two years old.—First prize, £10, B. Brown (Prince); second, £5, H. Biddell, Playford (Great Expectations).

Suffolk cow, in-milk or in-calf.—First prize, £10, B. Brown (Countess); second, £5, J. Hammond (Mrs. Davey). Com-

mended: R. E. Lofft (Newbourne Pride). Reserved: T. Thornhill, Riddlesworth.

Suffolk heifer, in-milk or in-calf, under three years old.—First prize, £10, J. Hammond (Bessie); second, £5, B. Brown (Duchess). Commended: R. E. Lofft (Handsome 2nd). Reserved: R. E. Lofft (Topknott).

Suffolk heifer, under two years old.—First prize, £7, B. Brown (Handsome); second, £3, Sir E. C. Kerrison, Bart., Oakley Park, Soale. Highly commended and reserved: J. Hammond, Bale, Norfolk (Beauty).

Red polled Suffolk cow.—First prize, a cup, £10 10s., B. Brown, Thursford, Thetford (Countess).

Shorthorn bull, not under two years old.—First prize, £10.—N. Catchpole, Ipswich (Oxford Prize); second, £5, J. Upson, Rivenhall, Witham (Duke of Westwood). Highly commended and reserved: Wm. Tippler, Duke Farm, Roxwell (Cambridge Duke 3rd).

Shorthorn bull, under two years old.—First prize, £10, R. H. Crabbe, Baddow Place, Chelmsford (Romford Duke); second, £5, N. Catchpole, Ipswich (Sorcerer).

Shorthorn bull, under one year old.—First prize, £7, Wm. Tippler (Proud Cambridge Duke); second, £3, N. Catchpole (Samson).

Shorthorn cow, in milk or in calf.—First prize, £10, N. Catchpole (Daisy); second, £5, J. R. Chaplin, Ridgewell, Halstead (Maid of Honour). Highly commended and reserved: N. Catchpole (Acacia). Commended: N. Catchpole (Princess Emily); Wm. Tippler (Countess Landor).

Shorthorn heifer, under three years old, in milk or in calf.—First prize, £10, D. A. Green, East Donyland (Peach Blossom); second, £5, J. R. Chaplin (Kitty Dod).

Shorthorn heifer, under two years old.—First prize, £10, N. Catchpole (Lady Ducie); second, £5, J. R. Chaplin (Grace Ogilvie). Highly commended and reserved: W. Tippler (Cinnamon). Highly commended: D. A. Green (Donyland Rose).

Bull of the Channel Islands breed, of any age.—First prize, £10, R. M. Jary, Westley, Newmarket (Prince Charlie); second, £5, J. R. Vaizey, Attwoods, Halstead (Alderney bull). Highly commended: C. J. H. Tower, Weald Hall, Brentwood (Eclipse).

Cow or heifer of the Channel Islands breed, if over two years old, in milk or in calf.—First prize, £10, Rev. Morton Shaw, Rougham Rectory, Bury St. Edmunds (Mignonette); second, £5, the Marquis of Bristol, Ickworth Park. Reserved: F. M. Wilson, Stowlangtoft Hall.

Cow for milking purposes, of any breed.—Prize, cup, £6 6s., Lieut.-Col. F. M. Wilson, Stowlangtoft Hall (Ada).

SHEEP.

Southdown tup of any age.—First prize, £8, C. Boby, Alton Hall, Stutton; second, £4, J. Overman. Reserved: C. Boby, Alton Hall.

Shearling Southdown tup.—First prize, £8, and second, £4, J. J. Colman, M.P., Norwich.

Pen of five Southdown shearing ewes.—First prize, £8, J. J. Colman, M.P., Norwich; second, £4, J. Overman, Burnham. Commended and reserved: W. Harvey, Timworth.

Suffolk tup of any age.—First prize, £8, and second, £4, J. M. Green, Stradishall, Newmarket.

Shearling Suffolk tup.—First prize, £8, W. Harvey, Timworth; second, £4, J. Smith, Hasketon.

Pen of five Suffolk shearing ewes.—First prize, £8, J. M. Green; second, £4, G. King, Gazeley. Highly commended and reserved: W. Harvey, Timworth.

Pen of twenty ewe lambs of the Suffolk breed.—Prize, R. M. Jary, Westley, Newmarket.

Long-wooled tup of any age.—First prize, £8, J. Giblin, Bardfield; second, £4, J. Wheeler and Sons, Long Compton.

Shearling Long-wooled tup.—First prize, £8, J. Giblin; second, £4, J. Giblin. Reserved: J. Wheeler and Sons.

Pen of five Long-wooled shearing ewes.—Prize, £8, J. Giblin.

Pen of not less than five ewes of any pure breed.—Prize, cup value £15 15s., J. J. Colman, M.P., Norwich.

Pen of ten ewes of any age or breed, which have had lambs this year.—Prize, £6, G. Cooke, Linton, Cambs.

Pen of ten shearing ewes of any breed.—First prize, £6, G. Cooke, Linton, Cambs; second, £3, Marquis of Bristol, Ickworth Park.

Pen of ten ewe lambs of any breed.—First prize, £6, G. Cooke, Linton, Cambs; second, £3, J. M. Green, Stradishall, Newmarket. Highly commended and reserved: J. J. Colman, M.P., Norwich.

PIGS.

Boar of the black breed, not under one-year-old.—First prize, £8, G. M. Sexton, Wherstead Hall (Cremorne); second, £4, S. Wolton, Butley Abbey. Commended: H. Biddell, Playford (The Claimant).

Boar of the black breed, under one-year-old.—First prize, £5, H. Biddell, Playford (The Cripple); second, £3, Herman Biddell (Sir Roger).

Sow and pigs of the black breed (the pigs not to exceed 10 weeks old).—Prize £8, G. M. Sexton, Wherstead Hall.

Breeding sow of the black breed.—First prize, £8, G. M. Sexton, Wherstead Hall; second, £4, Lord Rendlesham, Rendlesham Park (May Queen). Commended: E. King (Black Diamond).

Pen of three young sows of the black breed, pigged since November 1st.—First prize, £5, G. M. Sexton, Wherstead Hall; second, £3, S. Wolton, Butley Abbey.

Boar of the white breed, not under one year old.—First prize, £8, R. E. Duckering, Northorpe, Kirtton Lindsey; second, £4, R. E. Duckering. Commended: M. Biddell, Playford.

Boar of the white breed, under one year old.—First prize, £5, G. M. Sexton, Wherstead Hall (Sir Roger); second, £3, Lord Rendlesham, Rendlesham Park (White Boy).

Sow and pigs of the white breed (the pigs not exceeding ten weeks old).—Prize £8, Messrs. John Wheeler and Sons, Long Compton.

Breeding sow of the white breed.—First prize, £8, G. M. Sexton, Wherstead Hall; second, £4, Lord Rendlesham, Rendlesham Park (Polly). Commended: Messrs. J. Wheeler and Sons, Long Compton.

Pen of three young sows of the white breed, pigged since November 1st.—First prize, £5, G. M. Sexton, Wherstead Hall; second, £3, Lord Rendlesham, Rendlesham Park.

Pen of three clean fat pigs.—Cup, £3 3s., C. Cockerill, Pakenham.

THE DINNER.

The President, Lieut.-Col. Wilson, was in the chair.

LORD AUGUSTUS HERVEY, M.P., said there were two subjects to which he thought he might allude. In the neighbouring county of Norfolk his Royal Highness the Prince of Wales had been pleased to allude to the ability of the Eastern Counties to arrange a show which should be second to none in England. This was a question which more than once had occupied the attention of the Council of the Association with which he had the honour to be connected, and he thought that under the circumstances the suggestion ought to receive the attention of that Association. Another topic to which he might draw their attention was one of more general interest. The revenue of the present year showed such extraordinary signs of increase that he thought they might naturally look forward at the close of the financial year to a very large surplus, and he thought it was worthy of the attention of all who were interested in agriculture to consider in what way that surplus might be applied at the end of the year, so as to benefit agriculture. There were many ways, no doubt, in which it might be done, and he needed scarcely to remind them that during the present Session a motion had been passed with respect to Local Taxation, which was in accordance with the views they had long held, and which could scarcely fail to produce an effect on the legislation for rural interests. Then, also, there were other outlets for the surplus wealth of the country with which they were familiar. Amongst them were the Income-tax and the Malt-tax. Whatever might be the result, he thought the agriculturists would do well to employ their minds in considering how the large balance, which would undoubtedly accrue, should be used so as to benefit agriculture.

MR. E. GREENE, M.P., believed they had been already greatly relieved by the steps which had been taken in Parliament by those who advocated a relief from local taxation, to get certain burdens borne by the public at large which formerly pressed upon the ratepayer. He congratulated them upon the Show that day, and hoped that one question would not be lost sight of, and that was steam cultivation. He felt

sure that the day was coming when deep cultivation of the soil would be felt to be of vital importance. There were differences of opinion, perhaps, upon that subject as well as upon others, but he thought those who had tried it had felt it to be right. He had merely mentioned this because he had recently attended a meeting in London, which was held for the purpose of establishing a Company for carrying out steam cultivation, so as to relieve the occupier of the difficulty of finding capital for such machinery as was needed for the work. He was convinced that the farmers needed all that they could do on their farms by the aid of machinery or otherwise. As a few drops foretold the coming storm, so he was assured that unless they availed themselves of scientific appliances, they would fall short in the race. Expenses would rise, and productions would remain stationary, and they would find the balance on the wrong side.

VISCOUNT MAHON, M.P., said as to the matters in the House of Commons, he would venture to say, speaking only of his own opinion, that he did not consider that the House of Commons represented the country. He would add one word to what his friend Mr. Greene had said as to Local Taxation. They expected much more good than they had yet experienced in the reduction of Local Taxation. They expected to pay higher wages, and could not do that if their rates went on increasing day by day; and, therefore, the important motion which Sir Massey Lopes passed by a large majority would, or ought, to lead to some results favourable to their interests.

MR. R. GARRETT: What about the Ballot Bill?

VISCOUNT MAHON: I think that with regard to the Ballot Bill, we shall have it, but somewhat softened down. He was sure they would all deprecate having political agitators stirring up ill-feeling between landlords and tenants, and between the tenants and their workmen. They did not want them in Suffolk; but he had too high an opinion of all, whether landlord, tenant, or workman, in Suffolk, to suppose that they would be very seriously affected by these agitators. With regard to cottage building, he must observe that it was all very well to advocate better cottages, and he should be very sorry to say a word against it; but they could not do everything at once. It must be remembered that here, as in other things, they were stopped by financial considerations. If they spent £200 upon a cottage which returned but £4 a year, that was only two per cent., and there are not many who could afford that. (A VOICE: "You could build it for £100.") It had also been said that the land was in the hands of only wealthy people, and that its possession was a matter of luxury. Land, it was said, could only be held by rich people. That was not quite true, for by the Agricultural Statistics they learned that 51 per cent. of the land was owned by holders of under 20 acres in England, and 55 per cent. by the same class of people in Scotland.

THE PRESIDENT might say that he never saw a more magnificent class of agricultural mares or the Alderney cows at the Royal or any other show. With regard to implements, as experience proved that they could get a good show without offering prizes, he thought the association was wise in giving none; for having been a steward at the Royal Show for some years, he knew from experience that the trouble and expense of getting at anything like a satisfactory result were more than any county association could undertake. There was one subject he did not like to pass unnoticed, as it was creating a good deal of stir in the agricultural world at the present time. He alluded to the labour question. He thought they would all admit that the labourer's labour was his capital, and he was perfectly justified, as long as he kept within the limits of the law, in making the best market he could. The only fear was that he might be led away by interested and mischievous men, who had their personal interests at heart more than those of the agricultural labourer. The rate of wages must be regulated by supply and demand, and if there was too much labour it must move off somewhere or other. From this neighbourhood a great many had gone into Yorkshire, and some he heard were doing well; some had already returned, and there was no more talk of going away. He did not blame a labourer for moving if he thought he could better himself, because it was what was done by people in other walks of life; but if a legitimate rise of wages was to take place, where was it to come from? He did not believe that the profits of farming were sufficient to pay any great increase of wages; and if higher wages were to be paid, machinery must be used to

enable farmers to do with fewer labourers, and there must be a different system of cropping. Then again it was said that the landlords must lower the rents. They must remember that money invested in land now only paid three per cent., and in many cases even less, and he did not see how they could look for a reduction of rents. What they ought to do was to pay the labourer a fair day's wages, and in return they ought to have a fair day's work. If the present movement was kept within bounds, he thought it would do good, as it would tend to make the labourers more independent of the rates; but if they were led away by excitement, and the farming interest was not able to meet their demands, it must recoil upon their own heads. With regard to the amalgamation that had been spoken of, it appeared there were two views upon that subject. They would get much larger shows, but the question was whether the shows were not already large enough; and also whether by amalgamation they would not lose a great deal of local interest that was now very valuable. One other point he wished to mention. He had often been joked about being instrumental in bringing the Royal Show to Bury, and he wished to remind them that it was coming into the Eastern district again in 1874. It was true that the show was held in the county of Suffolk in 1867; but Suffolk was then the last on the list, and it would not be unfair that it should come again into this county, and there was no town of the same importance as Ipswich where it had not been held. If Ipswich wished for it, they in the Western division would do all they could to ensure its being held there.

Mr. PORTWAY on behalf of the cart-horse judges spoke very highly of the various classes, especially the yearlings and two-year-olds, the latter being the best he ever saw. He was also glad to see that while the Suffolk men had adhered to quality they were getting also a little more substance. The young fillies were not nearly so good as the young colts.

Mr. TURNER, as one of the judges of the pigs, said that with one exception they were a remarkably good show. The exception, he should think, was sent by a man who never saw but that one pig; if he had he would have kept it at home. He was in favour of deep ploughing, and if a man had a farm that would not pay for deep cultivation, he would advise him to give his landlord notice at once, as it was not worth having at all.

Mr. THURNALL, as one of the judges of riding horses, said he was sorry he could not compliment the county on the show, but it was not at all surprising when he saw the kind of horses and mares from which they were in the habit of breeding. He advised more attention to breeding from animals of a better class.

Mr. GAYFORD, referring to the question of amalgamating the Societies of the Eastern Counties, said there appeared to be no necessity for such a step at present, but the time might come when towns would not be so anxious for the meetings of the Association as they were at present, and when it would be advisable to hold them less frequently, and then amalgamation would become desirable, but at present he thought "Let well alone" a good motto.

RIPON AND CLARO AGRICULTURAL SOCIETY.

The annual show was held at Ripon. The entries of cattle were 55, horses 155, sheep 42, pigs 23, poultry 83, pigeons and rabbits 72, and implements 232. The Marquis of Ripon's prize of £10 for Shorthorn bulls was competed for by six animals. Mr. Linton's celebrated white bull, Lord Irwin, from Sheriff Hutton, and the winner of so many prizes, from the Royal Society's show downwards, was among the entries; but the first and second awards went respectively to a roan, owned by Mr. Charles Mason, Dishforth, Thirsk; and a red three-year-old, the property of Mr. W. H. Raine, Morton, Tynemouth, Darlington. The Shorthorns, as a class, were more numerous than at last year's show, many of the best herds in the north of England being represented. The entries in the horse classes were also generally of fair average quality. The two hunting prizes obtained only few entries; and, although in the roadster classes there were more animals shown, the general quality was not so good as at previous shows of the Society. The sheep classes were well filled, and equally well represented. Pigs were not so large a show as in previous years, but there were some useful animals exhibited in the store classes. The implements comprised the usual variety. Malthouse, Ripon, received an award for seed-drills; Slater, Easingwold, for carts; Smith, Lanthorpe, for a sheep-rack; Hewson, Northallerton, for washing machines and churns; Kearsley, Ripon, for horse-mower and rake; Bradford and Co., London and Manchester, general assortment of washing machines; Corbett, Shrewsbury, winnowers and drills; Ingram, Ripon, general assortment of agricultural implements; Grainger, Ripley, sheep-rack; Sherwood, Bedale, reaper; Wilcock, Dishforth, corn drill; Bushell, York, general assortment; James, Ripon, general assortment; Spence, Ripon, general assortment; Lackley, Ripon, general assortment; Hopperton, Sheriff Hutton, general assortment; Rimington and Co., Newcastle-on-Tyne, farm boiler; Scurrah, Well, ploughs; Kemp, Boroughbridge, reaping machines; Parkinson, Ripon, sewing machine; Stephenson, Grewelthorpe, side-action reaper; Mountain, Ripon, carts; Croft, Ripon, carts.

PRIZE-LIST.

JUDGES.—HORSES: T. B. Colton, Eagle Hall, Newark; W. S. Atkinson, Barroby Hall, Woodlesford, Leeds; W. Robinson, Hutton Hall, Darlington; J. S. Stowell, Faner-dale House, Darlington. CATTLE: T. C. Booth, Warlaby, Northallerton; T. M. Fryer, Wensley House, Bedale.

SHEEP AND PIGS: W. Lovell, Nafferton Grange, Hull; W. Hill, Wetherby. IMPLEMENTS: J. Gothorp, Mowbray-hill, Bedale.

CATTLE.

SHORTHORNS.

Bull, two years old and upwards.—First prize, C. Mason, Dishforth, Thirsk; second, W. H. Raine, Darlington.

Bull, above one and under two years old.—First prize, W. Linton, Sheriff Hutton; second, Major Stapylton, Helperby. Bull-calf, under twelve months old.—First prize, T. H. Hutchinson, Catterick; second, Major Stapylton.

Cow or heifer, in calf or milk, three years old and upwards.—First prize, T. H. Hutchinson; second, J. Knowles, Wetherby.

Heifer in calf or milk, under three years old.—First prize, Major Greenwood, Ripley; second, J. Yorke, Pately Bridge.

Heifer, one year old and under two.—First prize, T. H. Hutchinson; second, Major Greenwood.

Heifer-calf, under twelve months.—First prize, T. H. Hutchinson; second, F. Barroby, Dishforth, Thirsk.

Pair of dairy cows in calf or milk.—First prize, G. K. Harland, Northallerton; second, T. H. Hutchinson.

Cow for dairy purposes.—First prize, C. Mason; second, Major Greenwood.

ALDERNEYS OR GUERNSEYS.

Cow or heifer of any age, in calf or milk.—First prize, W. Tattersall, Ripon; second, S. Gothorp, Nunwick.

ANY BREED.

Cow for dairy purposes, the property of a cottager whose annual rents collectively do not exceed £30.—First prize, G. Hutley, Nunwick; second, M. Ianson, Ripon.

HORSES.

Brood mare, with foal at foot.—First prize, W. C. Roecliffe, Hull; second, R. Russell, Bedale.

Three-year-old gelding.—First prize, T. Hare, Easingwold; second, Viscountess Downe, Thirsk.

Three-year-old filly.—First prize, Viscountess Downe; second, G. Foster, Burley-in-Wharfedale.

Two-year-old gelding or filly.—First prize, R. M. Bowman, Ripon; second, G. H. Thompson, Kirkhammerton, York.

Yearling colt or filly.—First prize, R. Williamson, Ripon; second, T. Tebb, Ripon.

Brood mare for harness, with foal at foot.—First prize, L. Manfield, Thirsk; second, F. Barroby, Thirsk.

Three-year-old gelding or filly, for harness.—First prize, I. Searth, Northallerton; second, T. Clayton, Ripley.

Two-year-old gelding or filly, for harness.—First prize, J. Wood, Tanfield; second, L. Manfield.

Yearling colt or filly, for harness.—First prize, L. Manfield; second, J. Mason, Thirsk.

Brood mare, with foal at foot, for the road.—First prize, R. M. Bowman; second, W. Dixon, Thirsk.

Three-year-old gelding or filly, for the road.—First prize, J. Woodward, Boroughbridge; second, W. Lumley, Wetherby.

Two-year-old gelding or filly, for the road.—First prize, J. Greaves, Clothierholme; second, F. Barroby.

Yearling colt or filly, for the road.—First prize, T. Dales, Wetherby; second, W. Fall, Wath.

Brood mare with foal at foot, for the farm.—First prize, Major Stappylton, York; second, J. Smith, Mumburton.

Three-year-old gelding or filly, for the farm.—First prize, A. Heddon, Baldersby; second, E. and W. Pawson, Burley.

Two-year-old gelding or filly, for the farm.—First prize, R. P. Crow, Boroughbridge; second, L. Lorrimer, Knaresbro'.
Yearling colt or filly, for the farm.—First prize, A. Heddon; second, T. Gill, Bedale.

Pair of horses for farm purposes, in which capacity they must have worked during the season.—First prize, A. Heddon; second, G. Mangles, Givendale.

Hunting gelding or mare of any age.—Prize, R. Brunton, Middlesbro'.

Four-year-old hunting gelding or filly.—Prize, Lady de Lisle and Dudley, Ingleby Manor, Northallerton.

Leaper, gelding or mare, of any age.—First prize, H. Johnson, Spofforth; second, W. T. Wells, Kirklington.

Roadster, gelding or mare.—First prize, T. Clarkson, Leeds; second, G. Knowlson, Thormanby.

Pair of tandem horses or ponies, any size, to be driven in harness.—First prize, W. Scott, Broom Close, Boroughbridge; second, J. Handley, Ripon.

Single harness horse, gelding or mare (trotting and quality), to be driven in harness in the ring.—First prize, C. Mills, Bradford; second, R. Williamson, Ripon.

Pony, not exceeding 14 hands, to be mounted if required.—First prize, G. Blakelock, Sherton Castle, Eden; second, C. Mason, Dishforth, Thirsk.

Pony, not exceeding 12 hands.—First prize, F. Mosey, Leeds; second, T. Clayton, Stanley House, Ripley.

Donkey.—First prize, T. Davy, Bishop Monkton; second, J. Parker, Middleton, Quernhow.

SHEEP.

LEICESTERS OR LONGWOOLS.

Ram of any age.—First prize, T. H. Hutchinson, Manor House, Catterick; second, C. and W. Dovenor, Sunley Rains, Ripon.

Shearling ram.—First prize, T. H. Hutchinson; second, T. H. Hutchinson.

Pen of three ewes.—First prize, T. H. Hutchinson; second, C. and W. Dovenor.

Pen of three shearling gimmers.—First prize, T. H. Hutchinson; second, C. and W. Dovenor.

Pen of five shearling wethers.—First prize, J. Cundale, Capt Hewick; second, J. Cundale.

Pen of five he-lambs.—First prize, J. Greaves, Clothierholme; second, W. W. Gatliff, Thorpe Lodge, Ripon.

Pen of five gimmer-lambs.—First prize, J. Greaves; second, W. W. Gatliff.

ANY OTHER BREED OR CROSS.

Pen of five ewes.—First prize, S. Gothorp, Nunwick; second, S. Gothorp.

Pen of five shearlings.—First prize, J. Mason, Skelton, Ripon; second, J. Mason.

PIGS.

Boar of any age, of the large breed.—First prize, G. Mangles, Givendale; second, W. Lister, Armley.

Sow of any age, of the large breed.—First prize, J. Broadwith, Rainton; second, G. Mangles.

Boar of any age, of the small breed.—First prize, G. Mangles; second, W. Lister.

Sow of any age, of the small breed.—First prize, W. Lister; second, G. Mangles.

Cottager's pig, such cottager paying under £8 rent, and resident within eight miles of Ripon.—First prize, W. Her-ring, Skelton, Ripon; second, M. Lynch, Ripon.

Pen of three pigs, of the large breed, not exceeding six months.—Prize, G. Mangles.

Pen of three pigs, of the small breed, not exceeding six months.—Prize, G. Mangles.

EXTRA STOCK.

One sow.—Prize, J. Mawe, Kilburn, York.

At the luncheon, Mr. R. D. Oxley, Thorpe Lodge, in the chair, Mr. ATKINSON, who responded for the judges, spoke of the great advantage of agricultural shows in creating good feeling and trust between landlord and tenant, and friendly emulation among exhibitors.

PENWITH AGRICULTURAL SOCIETY.

The annual show was held at Penzance. There were in all 161 entries—58 of cattle, 61 of horses, 25 of sheep, and 17 of pigs—subdivided as follows: Devons 16, Shorthorns 12, Channel Islands 20, cross breed cattle 10, saddle horses 16, general purpose ditto 14, agricultural ditto 14, Leicester sheep 21, Shropshire Down 2, South Hams 2, large breed pigs 3, small breed 14. The Devons included some good animals, but more conspicuous were the Shorthorns, the Messrs. Hosken, of Hayle, having forwarded ten, amongst which was the prize-taker, the Duke of Oxford, who was bedecked with ribbons and stripes which he had won in the various competitions in which he had been so successful. There was also a good show of Jerseys, Guernseys, and cross-breeds. The saddle horse classes were the best, and the agricultural classes not so strong as they might have been. There were some good pens of Leicesters; and the small breed pigs, though the entries were not numerous, were on the whole very good.

PRIZE LIST.

JUDGES.—HORSES AND PIGS: J. Sandoe, Bodmin, and R. Tremaine, Trethurfe. CATTLE AND SHEEP: J. Gill, Tre-worgie, and W. Clarke, Luney.

CATTLE.

North Devon bulls.—First prize, W. Clarke, Luney;

second, J. Goldsworthy, Trewinnard; third, T. Stephens, Wendron.

Shorthorn bull.—First prize, Hosken and Son, Hayle; second, E. Bolitho, Trewidden.

Bull of the Guernsey or Jersey breed.—Prize, T. D. Eva, Camborne.

North Devon bull, calved since January 1, 1871.—First prize, J. Mason, St. Clement's; second, T. Stephens.

Shorthorn bull, calved since January 1, 1871.—Prize, Messrs. Hosken.

North Devon milch cow.—First prize, Mr. Rosewarne, Godolphin; second, J. Mason.

Shorthorn milch cow.—First and second prizes, Messrs. Hosken.

Milch cow of the Guernsey or Jersey breed.—First prize, T. Roberts, St. Levan; second, H. Hodge.

Milch cow of the cross breed.—First prize, J. Cardell, St. Erth; second, E. Bolitho.

Two years old Shorthorn heifer, calved since January 1, 1870.—First and second prizes, Messrs. Hosken.

Heifer of the Guernsey or Jersey breed, calved since January 1, 1870.—Prize, T. Roberts.

Highly commended.—Jersey bull, G. Laity; Guernsey cow, W. Edwards; Jersey cow, R. Cardell, St. Erth; Jersey cow, G. Laity; cross-bred cow, J. Cardell; two cross-bred cows,

E. Bolitho; three Shorthorn heifers, Hosken and Son; Guernsey or Jersey heifer, T. D. Eva; two years old stallion, for general purposes, J. H. Trevithick and Sons; three years old filly or gelding for the saddle, W. Laming; two years old filly or gelding, H. Armitage; cart horse or colt J. Barratt; saddle yearling colt, M. A. Williams; Leicester hogg ewes, J. Thomas.

Commended.—Guernsey heifer, W. Edwards; Jersey heifer, R. Cardell; two years old gelding for the saddle, Mr. James and Mr. Mitchell; saddle yearling colt or gelding, R. White and H. Armitage.

SHEEP.

Leicester ram.—First prize, J. Rosewarne; second, and third, J. Mason.

Leicester hogg ram.—First prize, J. Rosewarne; second, J. Mason; third, J. Rosewarne.

Five Leicester ewes, not exceeding three years old off, having reared lambs this season.—First prize, J. Rosewarne; second, J. Thomas.

Five Leicester ewe hogs.—First prize, J. Rosewarne; second, J. Mason.

Southdown ram, or other Down ram.—Prize, T. Roberts.

PIGS.

Boar, large breed.—Prize, J. Foss, Perranuthnoe.

Sow in farrow, or having had farrows.—First and second prizes, C. Strick, Saucered.

Boar, small breed.—First and second prizes, W. M. Ware, Helston; third, J. Bassett.

Sow in farrow, or having had farrows.—First prize, John Bassett; second, W. M. Ware; third, J. Bassett.

HORSES.

Stallion, calculated to improve the breed of saddle horses.—First prize, J. P. and W. H. Yeo, Camborne (Lifton); second, Hawke and Williams, Truro (Motley).

Stallion, calculated to improve the breed of horses for general purposes of husbandry.—Prize, W. Laming, Lelant (Trotting Rattler).

Stallion, calculated to improve the breed of cart-horses.—First prize, J. P. and W. H. Yeo (Young Shiner); second, H. Laity.

Brood saddle mare, with her foal by her side.—First prize, E. Bolitho; second, G. Phillips (Sennen).

Three years old filly or gelding, for the saddle.—First prize, H. Armitage; second, J. Curnow, Towednaek.

Three years old filly or gelding, for general purposes.—First prize, T. P. Adams, Breage; second, H. Armitage.

Two years old gelding or filly, for the saddle.—Prize, C. Friggens, Gulval.

Two years old gelding or filly, for general purposes.—Prize, H. Armitage.

Cart mare, with her foal by her side.—First prize, R. M. Branwell and Sons, Penzance; second, R. Cardell.

Yearling colt, gelding, or filly for the saddle.—Prize, J. Inch, Ludgvan.

Yearling colt, gelding, or filly, for general purposes.—Prize, G. Chenhalls, St. Just.

THE DINNER.

Mr. T. B. BOLITHO, the Chairman, should deprecate the termination of the operations of a society which, through ill report and good report, had laboured on for eighty or ninety years, and was still as vigorous as ever. There was a time when, if a man had a son too dull for scholarship and too indolent for business, he brought him up to be a farmer. Now, however, agriculture had grown up to be a science, an art, a business. The old routine system of farming had died out, and no one could hope for success in it unless he brought to it a competent amount of judgment, industry, and energy. Yet they were still in a transition state, and he would be a bold man who would predict where these things would end. He was of opinion that although the expenses of farming had increased, yet that the profits of farming would tend to increase in greater proportion. Probably before long they would witness some alteration in the laws of the inheritance of land; let them hope likewise for some alleviation of the burdens that were laid upon it. They lived in high-pressure times, and landlords could not always afford to be generous; but that landlord was wise who by a short, fair, and simple agreement let his land to his tenant on such terms as would ensure a long occupation, or if the tenant left early, a fair allowance for unexhausted improvements. That landlord, too, was to be deprecated who allowed poor cottages on his estates. The education of the labourers was for the interest of agriculture, but unless they were provided with fitting houses in which to bring up their children, the labour and the money expended in education would be thrown away.

Mr. T. S. BOLITHO believed the Society had been productive of great good, and hoped it would be productive of much more. He remembered not many years ago they had with them a Tremenheere, a Scobell—who introduced the first turnip-drill into the county—a Tyacke, who brought into Cornwall the first Shorthorn bull, and a Lemon; and he felt that they should acknowledge the deep debt of gratitude they owed to them. With regard to the progress of agriculture, he thought it might be fairly shown that although the steps had not been very rapid, the production of food in Cornwall had at all events increased 50 per cent. in the last forty years—probably more. Certainly the amount of stock had greatly increased, and if the animals had not quite doubled, he felt sure that the production, weight for weight, of beef, mutton, and pork had. He would say nothing about the production of corn, except that on a little estate of his own in the eastern part of the county three times as much was raised as when he let it to its present tenant. He knew that that was not a singular instance. A great deal more remained to be done, and the next seven or eight years would witness great improvements in the agriculture of the county.

Mr. W. HOSKEN said the question of supply required serious consideration. His son and himself had done their part, for no one in the county turned out more animal food per acre than they did.

DAIRY MANAGEMENT.

The following is taken from Mr. Willward's address as delivered at the Ontario Dairymen's Convention:

You will ask what are the living vital questions of the day in dairy management, and what can this association do to bring about most desirable results in Canadian Manufacture? Until quite recently, neither the dairy farmer nor the cheese manufacturer has fully understood the nature and causes of milk taints, or the influence of ferments upon the product manufactured. The cheesemaker groping along in the dark has employed certain agents, and manipulations to bring about a desired result. From the experience of others or from his own practice, he has fixed upon a set of rules which with good material and under favourable circumstances have accomplished the object sought—turning out a good product. But if the material happens to be faulty and the circumstances unfavourable, he fails of

success, though operating under the same rules. Again, he has learned that faulty milk under certain manipulations need not be lost altogether, but may be turned into a second-class product. For several years past the great effort of manufacturers has been to devise means for making a good product out of bad material. Of course much has been learned from these experiments, concerning the treatment of bad milk and of floating curds; but at what a fearful cost! and the result gained is that although faulty milk may be turned into an inferior or second-class product, no skill has yet been able to convert it into the best goods. Had we known precisely the nature of the causes affecting milk, and had the energy and unceasing exertions of manufacturers been turned to the primary causes of their troubles, and the correction of faults at the fountain head, the great bulk of American cheese to-day would have been of superior excellence quite beyond anything yet produced. Sup-

pose a woollen manufacturer skilled in the machinery and running operations of his factory, but with no knowledge as to the qualities of wool, should attempt to make superfine broad-cloth from the coarse, almost worthless tags taken at the factory. He finds it does not work satisfactorily, and cannot be made into fine goods. Supposing then he attempts to alter his machinery and adapt himself to the situation, would you say that this man is adopting the best plan for success? Would it not have been better to have studied the character of the raw material—to have selected his wool in reference to the quality of goods he was seeking to make—since no amount of ingenuity and effort on his part will enable him to manufacture superfine cloth from coarse refuse material? He may learn some useful lessons in the management of this kind of wool, and perhaps the goods may be sold in market at a low price, sometimes covering the cost of production and sometimes not. Now, the manufacture of American cheese has been carried on somewhat upon this principle. Milk is brought to the factory and the manufacturer cannot tell what is the trouble with it. He soon finds it will not work up into a first-class goods, and so he does the best he can to save it from loss, turning it into as good a product as he knows how. In my recent address at Iugersoll, I explained how milk is changed from its normal condition by fungi—living organisms that take possession of the fluid, and by their growth and multiplication bring about the various phases of coagulation, and the breaking down of the lumps of curd upon the shelf until it assumes a mellow flaky condition fitted in flavour and texture for the human stomach. Certain germs or species of fungi are supposed to be natural to all healthy milk, while the same character of germs pervade also the atmosphere, and these last falling upon the milk are absorbed in it, where they multiply and grow, and thus the milk curdles and turns sour, developing what we commonly call lactic acid fermentation. The rennet is supposed to contain an immense number of these spores, and its effect in curdling milk is attributed to the growth of living organisms which by their multiplication in the milk cause curdling or coagulation of the fluid. They go also into the cheese upon the shelf, and under favourable temperature they perform the important office of breaking down the casein and converting the cheese into a mellow delicate morsel of food. And so far as these fungi are concerned they are the cheesemakers' real friends, and under favourable conditions as to temperature, time and place, they may be controlled to do the cheesemakers' bidding. But it is altogether different with those fungi which have their origin in putrid animal matter or in filthy vegetable decomposition. Their influence is altogether harmful, and it is from these organisms, which get possession of the milk or the cheese upon the shelf, that nearly all the trouble comes in prosecuting the cheesemaking art. We now have positive knowledge that milk is tainted in the cow's bag, before it is drawn, on account of the cows inhaling the odour of putrifying animal matter, such as that coming from dead calves and horses, and the like, left exposed to decay in the open air—that the filth from vegetable decomposition adhering to the udder and hair of cows, while passing through swales and slough holes, becomes detached while milking, falling into the milk, and even though in minute quantities, spoils the milk and unfits it for manufacturing into a good product—that filthy stagnant pools are filled with living organisms, and the animals drinking from these pools take them into the system, when they are carried into the circulation and are secreted in the milk, tainting it, and producing the same character of filth from which they emanated. These facts have become fully established by the microscopical investigations of scientists, and it is for the dairymen of America to meet the situation squarely and devise means to obviate the difficulty. Is it not a waste of time and money to be longer dilly-dallying over the cheese vats, trying to devise means to get a good thing out of bad milk, when the trouble would be obviated by having good material in the first instance? The most important point, it seems to me, is to educate the farmer in the production of good milk. This work sooner or later must be done, and I am fully persuaded should the dairy association turn their attention to this one point and resolve upon a system of reformation among farmers in the production and delivery of milk, American cheese would at once begin to rise in excellence and make rapid progress toward perfection. I know of but one man upon this continent who has fully comprehended this question in its bearings, and applied the remedy upon an extensive scale, that man

is Gail Borden, the distinguished inventor of the process of condensing milk in vacuo. He has several factories operating in this business where a large quantity of milk is daily delivered. I recently paid a visit to Mr. Borden at his house in White Plains, and examined his extensive milk-condensing factory at Brewster. Mr. Borden has made milk a minute study for the last twenty-five years, and probably there is no man living who has given so much attention to the practical handling of milk upon a large scale, and to the causes influencing its flavour and goodness as he. You will understand that Mr. Borden has originated and developed an immense business and has been able to put upon the markets of the world a milk that is now acknowledged by consumers to be purer, better flavoured, and altogether more healthful than it is possible to obtain from the city milkman. Consumers who have used his Eagle brand of milk for years tell me they have never opened a poor can, and have never been disappointed in its flavour and quality. Now, as it is more difficult to preserve the flavour of milk for long periods than it is to preserve cheese, and as consumers notice imperfections in milk sooner than they do in cheese, you will ask how has this result been accomplished. I asked Mr. Borden this question. I asked him how much milk received at his factory he allowed as waste, on account of its being out of flavour and imperfect, and he told me not a gallon was lost on this account, that in fact no bad milk was now received at the Brewster factory. He told me that in his early experiments he made many failures, that he had tried to convert bad milk into good as you cheese makers try, but that no ingenuity or device had yet been able to overcome the difficulty, nor did he believe it could be overcome by any process of handling, for sooner or later its imperfections would make their appearance in the product manufactured. He said his success in making a good article of milk depended not so much upon the formula in the best specifications, as upon the condition of the milk when brought to the factory, and the care and attention given to every part of the process from the washing of the vessels and the thorough cleanliness which should be observed in every department. The success of the milk manufacture at our three factories known as the Gail Borden Eagle Brand, he said, is due to the attention which we give to the personal inspection of every department of the dairies on the farms which is assigned to one person at each factory; the constant examination of every man's milk by samples taken and subjected to tests as to cream, sweetness, and the time it will keep after being brought from the dairies. In short there is nothing in any manufacture requiring so much care and everlasting vigilance and attention as that of milk. Now Mr. Borden began in the first place at the farm. His milk must come from upland pastures or well drained soils. The animals must not be allowed to wallow in swamps and mud holes. They must be provided with clean running water or good water pumped from wells. Attention must be given to the food the cows eat, and nothing is allowed in the pastures or the food that will taint the milk. No milk is received from cows that have not calved at least 12 days, unless by consent of manager. The cows must be milked in cleanly stables, and not allowed to pass through accumulations of manure at the entrance of the stables or in the yards. The milk must be drawn in the most cleanly manner, and strained through wire cloth strains. It must be cooled in a bath of cold water to below 58°, and the water must be sufficient to reduce the milk to this temperature in 45 minutes. Cows in heat must be separated from the herd and kept quiet during its continuance. Dogging or fast driving of cows is not allowed. A sample of every man's milk is taken daily at the factory and tested in regard to standard of lactometer, temperature, cream, time it will keep. A record is also kept opposite each party's name of the amount of milk rejected and the cause of rejection, with such other remarks as the case requires. The inspector visits every man's farm at least once during the month, and oftener if the register shows any variation in milk from a certain standard. In this way Mr. Borden has educated his patrons until, as he affirms, no losses are sustained on account of bad milk. Now I ask you if this is not the most practical and common sense method to be adopted. [It has been found to produce the highest results and greatest profits in Mr. Borden's factories, while the farmers themselves have reaped more money by far than their neighbours following the old careless system of producing faulty, rotten milk, and at the same time the first are more intelligent, and the happier

from the consciousness of well doing. Oh my friends I feel an earnest desire for the success of dairying everywhere upon this continent, and I am fully convinced we shall never rise to the highest excellence in this branch of industry until this work of education begins to take root and becomes developed upon the farm. I would urge this matter of producing milk as most vital to your success. Let every factory assemble its patrons at once, let there be full understanding and agreement among all concerned. Let an inspector of milk be appointed, clothed with authority to visit farms. Let the rules adopted be rigidly enforced, do not make any half-way work about it, but proceed with the determination that nothing short of "Gilt Edged" cheese is to be manufactured. That point is within your reach at once. When water is not abundant on the farm, introduce the system among farmers of aerating and cooling the milk by means of the recent invention for this purpose, which consists of forcing air by means of a common bellows through a pipe to the bottom of the can. It is a simple, cheap, and efficient appliance. In this way you at once strike ahead of the best dairy practice, and, with attention to curing cheese upon the shelf, will be able to compete with the finest goods in the world. The extreme fine flavour and quality of the high priced fancy Cheddars of England, is due to 5 points, viz.: perfect milk; draining the whey early from the curds; a slow development of acidity in the curds exposed to the air; a thorough expulsion of the whey; and a uniform temperature of 70° in curing the cheese upon the shelf. I speak from no mere theoretical standpoint, but from actual observation, and the handling of the curds in the best Cheddar dairies of England. I have a word here in passing to say about rennet. In a recent letter from Dr. Cole, of Potsdown, he informs me that calves killed soon after being dropped, and before sucking will yield a rennet of much greater strength than in any other way, and that the skins of such calves make stronger and better leather than the hides of calves dressed in the usual manner. The suggestion is new to me and may be worthy of some experiment. The second great question for the attention of American dairymen to-day is the proper curing of cheese upon the shelf. The subject has been almost entirely ignored by our daily associations, and by the dairymen of America. The curing of cheese has as much to do in securing fine flavour and quality as the manipulations of the milk and curd. Immense sums are thrown away annually in the best dairy regions of New York, simply on account of imperfect curing rooms. I do not know a single "fancy gilt-edged factory" in the State but that has lost during the past two years more money on account of damaged cheese, caused by imperfect curing-rooms, than would have paid the whole cost of a large and properly constructed "Dairy House." I doubt whether there is a curing house upon the continent whose ventilation and uniform temperature can be controlled and maintained. A well-made cheese when removed from the press to the cheese-room contains a certain amount of moisture, a part of which must pass off in the ripening process, or the cheese will not acquire good flavour. If the cheese is kept in a damp or badly-ventilated place, the excess of moisture will develop another class of fungi, a different kind of fermentation than that required for good cheese. From experiments made it has been found that 2,000 pounds of newly-made cheese will give out nearly two pounds of moisture during twenty-four hours, and the sooner the room is cleansed of such moisture the better; for if it is condensed and falls back upon the older cheese or the cheese is constantly saturated with these exhalations it will injure the flavour. We turn newly-made cheese daily, in order that this moisture may readily pass off, and the fermentation of the cheese be carried away in a uniform manner. Ample ventilation, then, is important—ventilation that shall carry off these fumes of decay and cheesy exhalations. From a large number of well-conducted experiments the principle has been established that a temperature of about 70 degrees is the best for curing well-made cheese; to secure fine flavour and a rich mellow texture as well as long-keeping qualities, the growth of the fungi, or fermentation, must be slow and uniform. You may force it forward by high heat and light salting, but always at the expense of long keeping qualities. The system of preparing cheese for market at 20 days old is a most pernicious system, and is the source of fearful losses to American dairymen every year. It is admissible only when you know where to place your goods and know they are to go into immediate consumption. In 1866 I

saw the result of such manufacture in numerous instances—cheese that came in good condition and if sold at once would command 76s., in a week's time so fell off in flavour that it went begging at 50s. I know that American dairymen and American dealers often boast of our system, because we can make cheese that is so soon ready for market that the shelves can be cleaned from month to month, but they do not couple it with the fact that much of our cheese sells in England for 30s. to 40s. the cwt., and even less. Some one loses on these goods, for no cheese of good flavour, that can be held, would be sold at such a fearful loss. I think the American method of curing cheese is grossly defective, and it is upon this point that we need the application of science and the genius of inventors. It will not do to take the chances of the weather in a climate so variable as ours. Our intensely hot summers must be counteracted in some way in the curing house, and if we really set about it we can overcome the difficulty, and the time when this should be done is now right upon us. I believe that a good many old curing houses could be improved by building around an inside wall, leaving six or eight inches' space between it and the present wall, and by arranging double windows. It has been suggested that sawdust or some non-conducting substance be placed between the walls. I saw something of this recently in Ohio. It was a storehouse for keeping late-made cheese after it was cured during the winter. Messrs. Horr and Warren, of Wellington, have a storehouse of this description, where on the 24th of January they had over 10,000 boxes of cheese stored in boxes, and though the weather had been intensely cold, no trouble was had from frost. I am inclined to think that the plan of dry, well-ventilated cellars or basements could be adopted so that a low even temperature in hot weather may be secured at little expense and trouble. I would have such a basement under the whole dry house, at least six or eight feet below the surface of the ground. The walls should rise above the ground three or four feet, so as to give an abundance of sunlight throughout the whole. I would have the rooms ten or twelve feet high in the clear, and the bottom should be thoroughly underdrained. Then the floor should be jointed and covered with cement or flagging, so that no water could enter from without, or accumulation of slops be possible. Ventilators with wickets should be arranged leading to the roof. The trouble with underground structures or basements as curing rooms is that often no attention is paid to drainage and ventilation, and hence in such cases they make very imperfect curing rooms. But on the plan I have proposed these objections would be obviated. Then, if necessary, waste-water from the ice-house may be conducted in metal pipes along the ceiling, and the cool air falling from them would preserve a low temperature in the room. Mechanics with whom I have consulted affirm that cold spring-water flowing in large metal pipes along the ceiling and then out of the building where it may be utilized for other purposes, would be sufficient to reduce the temperature to 70 degrees or below even in the hottest weather. Hot-water pipes arranged about the room, and connected with the boiler, would be the best means of raising the temperature in cold weather when heat is required. I do not pretend to give the best plans, but I offer suggestion by which the hot weather cheese may be kept in flavour until fall or such time as it may be sold, and not much expense in the way of curing rooms. I wish I could convince you of the great importance of having properly constructed curing rooms were good ventilation and a low even temperature may be maintained; and I speak to you from no mere theoretic standpoint, but from well conducted experiment in my own dairy practice. Some years ago I built a farm-dairy house, with curing room in the second story, *along*. Even with the floor on two sides of the room were openings through the sides of the building, five on a side, provided with wickets so as to regulate the quantity of air to be admitted as desired. In the centre of the room there was a large ventilator, running from the ceiling up above the roof of the building, also provided with a wicket for regulating the air. Here I experimented from time to time in the curing of cheese, and I found even with this arrangement that a temperature not above 75 degrees could be maintained in the hottest weather in summer, by regulating the wickets, and by the use of water upon the floor, which in its rapid evaporation would reduce the heat as desired. By attending to this matter I found that cheese could be preserved in good flavour throughout the season, when the factories and farm dairies

about were not able to keep it, and my experiments have convinced me that any temperature above 75 degs. could not be safely allowed for curing cheese, and that with proper attention to temperature, well-made cheese could be cured so as to retain a mild, sweet, nutty flavour for a long period. In my examination of English cheese in 1866 I tasted of samples from one to two years old, in which this mild clover flavour had been retained to perfection, and Mr. Herding and others assured me that the preservation of flavour was on account of the curing. When cheese is properly cured in an even temperature of 70 degs. and breaks down mellow and flaky it is not so liable to lose flavour afterwards, though exposed to higher heat. The great damage from heat seems to result during the first forty days. In other words, two cheeses from the same vat, the one kept at 70 degs. for forty days and the other at 90 degs., and both then subjected to high heat, the first will retain its flavour a much longer time than the other. Now, the knowledge and practice of a good system of dairy farming is very essential to success. To know how to manufacture good butter and good cheese, and to properly cure and pack it, is also of prime importance. But there is something beyond all this which not unfrequently depresses and paralyses all our best endeavours in dairy management. I refer to a loose and unskillful manner of marketing dairy produce. It is quite needless for me to say to you that no farmer, that no produce dealer, no business man can conduct operations with success when his necessary expenditures are greater than the receipts. Well-directed labour in any department of industry should have an adequate reward, and that it fails to accomplish this end is the result often of some lack of foresight and consequent mismanagement on the part of the operator. The exports of cheese from the United States to Great Britain during the past year have been the largest ever made. According to official returns from the Custom House they amounted to 63,732,520 lbs. from January 1871 to January 1872, or about 12 million pounds more than the previous year. The make of cheese in Canada is estimated to be from 10 to 15 millions of pounds, and the exports are supposed to be 8 or 9 millions of pounds. If we call it nine millions, the exports from America to Great Britain last year were about 77 millions of pounds. I have no statistics showing the amount of money which you have received the past year for Canada cheese, but I can give you the amount of money which Great Britain has paid the United States for cheese shipped for the years ending July 1st, 1869-70, and July 1st, 1870-71. In 1869-70 England paid us 8,831,934 dollars for 57 million pounds of cheese. In 1870-71, 8,752,990 dollars for nearly 64 million pounds or about the same amount of money for seven millions more pounds of cheese. If the amounts were compared from January to January a much greater difference would be shown, because prices from July to December 31st, 1872, were much lower than in 1870. The shipments from the United States last year, 1871, were in July, 12,424,565 lbs.; in August, 11,552,496 lbs.; in September, 10,095,725 lbs., showing that the half of our whole exports was in hot weather. You need not be told that the average price of cheese the past year (1871) has been low. As much of your cheese, I am told, has been sold for 7c. to 8c., the fact doubtless has been forcibly impressed upon your minds at every sale of cheese during the season, or up to January, 1872. And under the present system of marketing, I can see no prospect of much better average prices in the future. True there are several circumstances that have conspired to bring about a weak state of the market, such as the general decline in the price of all farm products, especially the low rates of bacon and pork; but the chief cause of low prices is the stupid manner in which our cheese is brought forward in hot weather and forced upon the markets. There is scarcely a factory within my knowledge in New York that is provided with room sufficient to keep the hot-weather cheese. The factories push forward immense quantities of cheese in July and August, not only from the fear that it will lose flavour at the factory, but because there is no room to hold it. The local dealer who buys in a hurry to be rid of it, for fear of losses in hot weather. The shipper is also afraid of it for the same reason, and every one who handles cheese in hot weather is in hot haste to shift responsibility and risk upon some other shoulders than his own. I cannot see how it is possible to sustain prices under such a condition of things. It is a forced sale from beginning to end, and the law of forced sales is that real values cannot be realised.

The remedy, it is obvious, lies in additional curing houses at the factory, so constructed that cheese may be held from time to time as desired, without fear of deterioration or loss of flavour. It is believed by many that dairymen are to get relief by the abandonment of dairying in some other locality. Thus, in the United States dairymen at the East talk of getting relief by the abandonment of dairying at the West, thereby reducing the general make of cheese. I do not think we can look for any permanent benefit in this direction. The business will be developed from year to year in new localities, where lands are adapted to the dairy. You cannot convince the West that more money is to be made in pork or grain raising than in dairying, even at present prices, because the facts are against any such assumption. The cost of transportation eats out the profit on grain-raising at the West. The cheese makers of Illinois are altogether better off this year than the grain raisers of that State, and so of Wisconsin and other States. We are not over-producing in dairy goods—that is not the matter; but we lack enterprise in opening up the home markets, and in supplying the kinds and qualities of cheese desired by our people. And then, again, we persist in forcing forward our goods when there is most risk in handling, and when they cannot be taken except at a heavy margin to cover prospective losses. The fact has become notorious that America furnishes no old cheese. There is a demand for good old cheese at high prices, but it cannot be had at any price. I am told that in Canada your best cheese goes abroad, and that no effort is made to promote consumption among your own people. You cannot, in my opinion, do a more unwise thing than to try and force your nasty, ill-flavoured goods down the throats of your home population. For by putting a superior article before your own people, you coax them to eat, and so educate their appetite that they will eagerly relieve your dairy houses of a considerable portion of stocks at good prices, thereby saving the cost of transportation and the numberless profits of the middlemen. The same system of picking out all the best goods for export prevails largely in New York, and it is a vicious system, because it checks home consumption, which should be promoted by every means possible. There are hundreds of villages in the United States where it is impossible to get a pound of good cheese from one year's end to the other, and many people who are naturally lovers of good cheese cannot understand why it is not offered for sale. It has been abundantly proved wherever the experiment has been tried that an organised system of marketing is not only a benefit to the producer but to the produce dealer. When goods are scattered over the country it requires immense labour on the part of dealers to hunt up and get supplies together. It is also quite expensive, not only taking time which is valuable, but necessitating an outlay for horse hire and other travelling expenses, which in the aggregate during a season amounts to a very large sum, all of which the dealer must either lose from his legitimate profits, or take out of the farmers' earnings by purchasing at so much below the actual market value of the article for sale. Suppose a farmer has five tubs of butter, or a few hundred pounds of cheese ready for market. The dealer makes a journey to the premises and buys the goods. His time is very much more valuable than that of the farmer's, and the actual expense of the journey (say 10 dollars, and perhaps more) must be met somewhere. Neither the farmer nor the dealer can afford to lose this sum. It is a waste of time and a useless expenditure of money resulting from a wrong system of marketing, for if producer and dealer agree to meet on a certain day at some convenient market point, a large amount of goods can be examined in a brief time and at minimum expense. But this is not the only advantage. There is a constant change going on in the great markets of the world. The price may be up this week and down the next. When goods are scattered over the country in separate lots, it takes too much time to gather them together, and hence the dealer must run large risks, or must make a liberal margin on his prices to cover any prospective loss on account of the delay in the city to meet present demands and present prices. If the dealer can meet the producer at the railroad depot and purchase his goods and ship them at once, he knows to a certainty when they will arrive at their destination, and thus he reduces his risks. And it is very important to the farmer that these risks be reduced to the lowest possible point, for heavy losses on the part of the dealer always react upon the producer, making dull markets

and depression in business. It is right and proper that dealers be paid liberally for their services, for the risk of their capital, and for their skill in handling produce, and what we seek by a central market is not to deprive them of their just compensation, but to cut off useless expenses, and make business more safe and profitable to both parties. Again, a central market stimulates to better production and more permanent improvement. There is many a farmer and factoryman who has no adequate idea of the relative quality of his goods until they are set side by side with those that are better, and where they can be fully tested and compared. At a central market you meet with numerous experts, and the judgment of different persons gives more satisfaction and gives greater weight than that of one person, whose opinion is often suspected of being warped or biased, perhaps for private ends. Then at a regular central market there is always a community of interests, a spread of intelligence, not only as to market values, but as to production and manufacture, which are of very great importance to the producer's interest. I have endeavoured to shadow forth some of the more salient advantages that result from the establishment of country markets, markets which ought to be inaugurated at least in every dairy section in the country. The plan has long existed in England, and I was very forcibly impressed with its great practical benefits during my visit to Great Britain in 1866. In England convenient buildings and grounds are provided, where all kinds of farm products are collected for sale on market-days. Farmers find these markets of the utmost advantage, whether they be sellers or buyers. If one wants to buy a horse, a cow, a pig, or any other farm product, he goes to the nearest market where are collected a variety of these animals, and which are offered at different prices. Hence farmers themselves who are purchasers find the markets economical, because the expense of travelling over the country to look up the article desired is saved; while, at the same

time, those who have goods to sell have an opportunity of meeting persons who desire to purchase, and thus they readily dispose of stock or goods that would, perhaps, depreciate on their hands awaiting a customer. Nothing strikes an American in England with more force than the fact that an English farmer can pay such enormous rents for land and yet save something by farming. The English consumers pay for the most part, but little more than the consumer here. Indeed, the cost of living is cheaper in England than in America, and yet the farmers on an average get more for their produce than the farmers of America. How is this to be accounted for, except it be that they have a better system of marketing, by which the consumer is brought more near the producer, and a great many useless expenditures and risks to the dealer are cut off than by our system, which is more expensive and speculative in its character. At the English cheese-markets the cheese from the surrounding neighbourhoods is brought into the market-place and piled in parcels under an open, shed-like building, and here the cheesemongers from all parts of the kingdom, or their agents, assemble and purchase such goods as are most desirable, while the different interests of dealers and the strong competition of the trade regulate the price, and prevents any of those losses that follow from selling below market rates on account of a lack of intelligence or a healthy competition. The advantage of a healthy competition among buyers, who know just where to place their goods, has a very marked influence upon sales and prices. I have known goods to sell at the Little Falls market late in the day, and after the leading dealers had left the market, at full 1 per cent. per pound below the earlier sales. Why? Not because the goods were worth less money, but because the dealers present had made up their supplies and were not certain where to place a surplus. This is a natural law of trade; the risks are increased, and consequently a larger margin must be exacted.

LAND TENURE.

BOROUGHBRIDGE AGRICULTURAL SOCIETY.

At the last quarterly meeting, Mr. Jacob Smith in the chair, Mr. FORD read the following paper:

The subject on which I have to-day to address you, and the title of which stands at the head of this paper, viz., Land Tenure, is one of very great importance, but one which is quite beyond our power of doing full justice to within the limits of an after-dinner discussion. Nevertheless, I have chosen it for to-day's consideration in consequence of its growing importance, and in the hope that, the subject once ventilated, it may be taken up in earnest by this society, that it will be well considered, and that the united intelligence of the gentlemen forming this association will be brought to bear upon those relations which should exist between landlord and tenant; for such in its ordinary acceptation is what is meant when speaking of land tenure. I will therefore offer no apology for introducing the subject, trusting that its development may fall into abler hands. I have said that the subject under discussion is one of great importance, and I believe it will require no pains on my part to substantiate this fact; for, with what we have lately learned concerning the growing population of this country, its increasing wealth, its thriving trade and commercial prosperity, and the continually enlarged demand for the necessities and even the comforts of life, proceeding from our industrial classes, the paramount necessity of a higher system of agriculture, and a larger outlay of capital to assist in the cost of an increased production, cannot fail to impress itself upon us; and what is of infinite consequence, when viewing the subject in this respect, is a better defined understanding between the proprietor and occupier of the soil. Before I proceed to dwell upon what, as I conceive, should be the relations between landlord and tenant, permit me to glance for a moment at the causes which have tended to bring about this enlarged demand, and which have in so great a degree produced such changes as we now see in our social economy. First, the increasing wealth of the country will be found to have exerted the greatest influence. The

enormous export trade and home consumption in almost every branch of industry has caused such an extraordinary demand for labour that the requirements of manufacturers can scarcely be satisfied. The price of labour, as a necessary consequence, has largely increased; while the working classes of the country have protected their interests by such combination as Trades Unions. The effect of these Unions has been largely to increase the cost of production; for while artisans in all branches of trade have by their protective influence been enabled to hold out and bide their time, employers of labour have been compelled to make very large concessions. Wages have therefore continued to rise—the standard of living among the working population has increased—while they are no longer content with the plain fare of but a short while ago. Education also has played no small part in raising the status of all classes of society, notably that of the upper and middle classes of operatives, throughout the country; and we all know that the refining influence of knowledge works very wonderful reforms in the ideas and thoughts of men, and that while the ignorant and unlearned are often content with a mean and squalid mode of living, the educated minds seek after better things—for more improved surroundings, and for more of the amenities of life both in their dwellings, their persons, and their general mode of living. Then, again, "knowledge is power;" and while we see the intelligence of the country greatly advanced during late years, we also see that more power has fallen into those hands which have most largely profited by education. These and kindred influences, which I must not further dwell upon, have united in making a larger and much increased demand upon the home productions of the two great requirements of life, viz., bread and meat—notably the latter—for while with the wealth of the country our bread-stuffs can for the most part be obtained from the granaries of Europe and the great corn-producing country of America, such is not the case with meat, which most men who have given their attention to the subject concur in believing must be the

product of our own islands. One other influence I must be allowed to mention as bearing greatly upon the relations which must subsist between landlord and tenant in the future, and must be taken gravely into consideration by all who contemplate the holding of land. I refer to the labour question, which has lately exhibited itself in a manner so unmistakable throughout the country. That all trades should thrive and all classes benefit under our advancing civilisation and progress, and that but one should remain stationary, is a condition that could hardly have long existed; therefore it is not surprising that the agricultural labourer should desire to move onwards with his fellows. Nevertheless it is a matter which must operate seriously upon the farmer, and render it more than ever necessary that he should receive increased protection in his holding; for it can hardly be expected that the rent of land should recede. It is not probable that such will be the case; at the same time it is but natural that the farmer should look for some compensating influence as a means of meeting his enhanced outlay; for whether it be regarded as the increased cost of living and of those social amenities incidental to the age in which we live—to the enhanced value of land, or to the increased cost of labour and of every material required in the working of a farm—or again to that extra outlay to which agriculturists must now be stimulated in order to meet the growing wants of the age—I say, having regard to all these disabilities which weigh upon the British farmer, it is but the barest justice that his interest in the soil should be protected in a manner which will afford him the best means of overcoming them, viz., by security of tenure. That the time has arrived when land must be held on fair commercial principles, no one, I think, will be disposed to deny. That fine old flavour of retainership appertaining to the holders of the soil, which whilome bound together the lord and his vassal in bonds of sentiment much closer than anything which could be obtained by the most carefully compiled "conditions" of our own day, is now, for better or for worse, no more. The system of the feudal ages has given way through many a change and gradation to a condition of things more nearly allied to the spirit of the times in which we live; but it may be remarked that while trade and commerce have in nearly every quarter of the globe established themselves on a just and equitable basis, the relations existing between the proprietor and the occupier of the soil are even now often of the flimsiest and most uncommercial character; and, unfortunately, it is often the tenants themselves who, by an unpardonable indifference, exhibit the most carelessness, while incurring the grave responsibility of investing their capital and making for themselves a home. Leases are compiled and conditions drawn out which are frequently never even read by an inbinding occupier, notwithstanding he has been careful to sign them; and, on the other hand, stipulations and covenants are made which are never enforced, and penalties provided which are never insisted upon; and what is the consequence? A feeling is engendered that the holding of land can be undertaken as it were happy-go-lucky—for better or worse. Small enterprise is often exhibited, and the minimum of capital invested. While it is not uncommon to meet with a good deal of dormant energy, or an energy directed in other channels, and capital invested in various ways, both of which might be profitably put into the farm, if a thorough sense of security accompanied their outlay. The idea which I would convey, if I could make my meaning clear, is that a certain looseness of idea exists in the hiring of land unsuited to the exigencies of our day. We want a more commercial spirit infusing into the transaction. We will assume that a landlord has found, as he believes, a suitable tenant, and the seeker of land has found both a good farm and a reputedly good landlord. And let me here remark that, under a system such as I would advocate, great caution is required in the selection of a suitable tenant. He must not only be a reputedly good man, but a man of skill and enterprise, and of sufficient capital adequately to farm the land to the best advantage, and by an energetic and enterprising management to leave it better than when he entered it. Similarly, a tenant should be careful that the proprietor under whom he may wish to farm, is a man of enlarged ideas, free from narrow views and old world prejudices, but of a liberal and improving turn of mind. When the conditions of a lease or agreement are under consideration between them, it should be the endeavour of the landlord, or his agent on his behalf,

to let the land on principles of the strictest equity, bearing in mind that it is for a livelihood that the tenant may be assumed to have become the hirer of the land. He should impose no antiquated or trivial stipulations or burdens, such as are sometimes handed down in farm agreements from father to son, but which to an enlightened and trustworthy tenant become irksome and oppressive, but should leave the tenant as free and unfettered as possible. All cropping clauses should be abandoned, the only stipulation being that the land be kept clean and in good condition. If a landlord rides over his estates, and takes note of the crops on his various farms, it will be a good criterion (though by no means an absolute indication) of how the land is being farmed; or, if not able to form a judgment for himself, there are generally those in his employment who are quite competent to advise a proprietor of how his land is being done to. But in the event of a divergence of opinion as to management, or other disputes, it should be arranged to have it settled by arbitration, the arbitrators to be mutually agreed upon with an umpire if so arranged. This is a better mode of dealing with such differences of opinion, than by leaving it to the decision of an agent or middle man, who is frequently incapable of coming to an impartial judgment, and, though capable, might naturally be supposed to adopt the landlord's views of the matter in hand. The tenant again should be careful not to sign any clauses which he has any hesitation as to his power or intention to fulfil. It is bad management to run any such risk, or to lay himself open to penalties, trusting to "chance" or to its "all coming right in the end." In the next place a tenant must assure himself that he is absolutely and without reservation, politically free. The landlord should make it known to his proposed tenant that he is so for all times, and that under no circumstances shall political opinions have any place, directly or indirectly in their business relations. Unfortunately we see instances from time to time—and a case in point has recently occurred north of the Tweed—where politics prove a futile source of discord between landlord and tenant; and, without entering into the merits of a case which, I doubt not, is well known to you all, I would remark that it is a painful and humiliating spectacle to witness a man of great agricultural skill, of wide fame, and of unexceptionable integrity, evicted from a farm that has been in his family for three generations, because his political creed happens to be opposed to his landlord, and he has had the courage to give expression to his opinions. This is unwarranted despotism, and is degrading to any right-minded independent body of men. But I now pass on to another topic, which is one of very great interest to farmers. If the proprietor of an estate is a sporting man, I cannot conscientiously advocate the principle that he should, under any agreement whatever, be deprived of the right and pleasure of sporting over that estate, although some have argued to the contrary. But I do not conceive that this Society would give its sanction or approbation to any such arbitrary arrangement. For reasons which there is not time to enter into, but which must be patent to all, it is very desirable that landlords should have inducements to visit and acquaint themselves with their property, and shooting will often be found to afford a primary motive to do this. But in such cases where a tenant has not the right of shooting (and if the landlord does not reserve the shooting for himself, then I must affirm that his tenants should have priority of claim, even though they paid a trifling acknowledgment for the privilege, for I cannot admit the justice of preserving game in order to let it to a stranger, for the emolument of the landlord, at the expense of the tenant)—but in cases where the landlord reserves the shooting for himself, it would not only be a graceful act, but often a conciliatory one, if at times the tenants were invited for a day over the stubbles or in the covers. Under certain restrictions—in company with a keeper or alone, or for a certain number of days—or under whatever arrangements that might be made, such a concession would be greatly appreciated, and could do no possible harm. It should not be forgotten that both winged and ground game are maintained entirely by the cultivator of the soil. The destruction of rabbits, by whatever means, should be a *sine qua non* with a tenant, and hares should be kept within strict limits. In all leases or agreements a compensation clause for excessive game depredations should be inserted, so that where undue damage has been done, the tenant shall, under the system of arbitration before referred to, have his remedy. It is altogether monstrous that

a system should prevail under which an occupier of land may spend his money and time, his skill and patience in raising crops, which may be consumed by unlimited rabbits and hares over which he has no control. I have myself seen, and so I doubt not have you all, fields of turnips in November, December, and January, which, from the depredations of hares and rabbits, were a standing disgrace to any community professing to let and hire land on fair and commercial principles. Such instances may be multiplied *ad infinitum*. And in three-fourths of such cases a tenant at will says thus with himself: "It is a great shame to see this; look at my crop, half destroyed, for after the first hard frost every one of these nibbled and partially eaten swedes will rot. I had hoped to keep them for my sheep in spring, but as it is the sheep will have to go before they are ready, and be sold at a disadvantage;" then his anger rises, and it is not to be wondered at that he turns away in a rage. But he straightway argues thus with himself: "If I make a row about it there will be some unpleasantness, and who knows what may come of it? I have been here some years, and spent a lot of money in improvements, the benefit of which I can only secure by remaining; for I should get no compensation for them if I had to go. I had better be quiet;" and so our friend pockets his affront as best he may. And thus it is with game depredations. Hence the tenant under either lease or agreement should be careful to protect himself by an accurately worded compensation clause. There is, however, now a prospect of some relief for farmers in the matter of game. The Game-laws Select Committee of the House of Commons are at present sitting and taking voluminous evidence, and it is to be anticipated it will operate beneficially to agriculture. It is not my intention in this paper to go over all the clauses of a lease or agreement, but rather to point out some of the leading principles, which, as I conceive, should guide both the letter and hirer of land, and I trust it may not be considered that undue prominence is given to the interests of the occupier if my remarks are rather directed to those points, which should be so arranged as to give the greatest feeling of confidence and security to a tenantry, and act as inducements to them for the outlay of capital; for it will hardly be disputed that in the execution of all well-managed estate agreements the interests of a landlord are sufficiently protected, while in the nature of farming all the risk and uncertainty remain with the tenant. If land must in the future be brought to the maximum of cultivation, and the requirements of generations yet to come are to be satisfied, there can be no doubt that many of the disabilities under which farmers now suffer will have to be removed, for it may be that in the inevitable course of events, there are some burdens which, as times goes on, will be found to increase rather than diminish. It has frequently occurred to me that an improved form of lease might be adopted on the system of what is termed renewable leases—combined with a Tenant-Right, or, in other words, for a term of years, with specified breaks or periods. We will suppose a twenty years' lease to be agreed upon. I would propose that it be so framed as to allow it to terminate, if necessary or expedient, at the expiration of every five years, either at the instance of the landlord or the tenant, the conditions of lease not being in the meantime affected. There are many reasons which appear to render such a course desirable; prominently among these, the event of death. But, from whatever reason out of many which will suggest themselves, a Tenant-Right proportionate as to time impermanent and other improvements, or heavy outlays which may have increased the rental value of the land, should be recoverable. Such a system would offer great inducements to men of capital freely to expend it in the cultivation of their farms, for they would have the satisfaction of knowing, while so doing, that if they remained upon the farm they would eventually reap the benefit of their outlay, while, if the lease was brought to a premature conclusion, such capital as remained unexhausted they would still have a proportionate interest in, and which would be recoverable as Tenant-Right. There is another advantage also which might be made to work well with such a plan, viz., that at the expiration of—say fifteen or sixteen years, a mutual arrangement could be arrived at between the landlord and his tenant as to the renewal or otherwise of the lease, and the terms or alteration of terms, if any, to be then and there settled. This, it will be seen, would be very desirable,

obviating, as it should, the system of scouring or running out of the land during the last rotation. If the lease is to be renewed, then it is obviously to the interest of the occupier to keep up the productiveness of his land; if otherwise, then there is the Tenant-Right to fall back upon, the landlord and incoming tenant sharing in such proportions as they may arrange such outlays as may have been incurred in lime, bones, and linseed-cake, buildings, drainage, and other improvements, calculated upon such a scale as shall recoup the out-going tenant his unexhausted interest in them. Our honoured friend, Mr. Alderman Mechi, than whom few men have possessed clearer or more intelligent notions in all matters relating to agriculture, has pointed out that there need be no limit in reason to the amount of capital expended in land, and I fully believe that we may some of us live to see the old notion of £8 or £10 per acre regarded as a relic of mediæval times, coeval with flails and sickles. "The land is a good bank," many a capitalist may exclaim, "and show me that I have proper security and I will freely invest in it." Thus, under the system I have advocated, the details of which will readily be understood, a stimulus would be afforded for the outlay of money. If A has profited to the extent of two-thirds the value of his expenditure, and from the force of circumstances quits his holding, it is right that the remaining one-third should be refunded him, which, on the other hand, the landlord might equitably charge to B, the incoming tenant, either as rent or as Tenant-Right on behalf of A. There has existed, as you are doubtless aware, a system akin to this for a long period in Lincolnshire, and many aver that it is the heart and soul of the flourishing condition of agriculture and the high-class tenantry to be found in that great county. It exhibits this important difference, however—that there is no lease. The tenants are, in fact, "tenants at will," but with such a system of Tenant-Right that they possess an accurately defined proportionate yearly interest in such outlays as are involved in buildings, in drainage, the application of bones, lime-marl, and the consumption of linseed cake, or any other extraneous expenditure which may have served to impart an adventitious value to the land. The result is seen in fine holdings in the highest state of cultivation, by a prosperous tenantry, and by a mutual confidence between landlord and tenant, which has imparted a wonderful impetus to the agriculture of the county. Arthur Young very long ago considered Lincolnshire the "Garden of England," and, if his panegyric was uttered on good grounds, then we must believe that it had resulted in great part from that Tenant-Right, or, in other words, security of capital, which must ever be the greatest incentive—the vitality of all progress and improvement. How can a prudent man be asked or expected to embark large sums of money—perhaps his all—upon a venture the issue of which depends not so much on his own energy and ability as upon the stability of mind of his landlord, without some definite assurance that he may be allowed to reap the benefit of it; or, if not that, that he may at least get his own again? And yet, under our present system, an energetic and improving tenant has no assurance, save his landlord's word, that he may even do that. And in this assertion it will be understood that it is far from my intention to call in question the integrity and honesty of purpose of landowners as a body. But it must be remembered that life is uncertain, and there is no security for a man that a son will walk in the same path as his father before him. It is *absolute security* that the British farmer must have before agriculture attains its highest development—a security that shall be tenable against the contingencies of life and death, or the caprices and infirmities of human nature. It is frequently asserted in defence of the system of yearly tenures that such and such districts or individual estates have been held on no other principle, and that they have exhibited an energetic and improving tenantry. This is not disputed; but it may be said—give the same set of men ample security for their outlay, and see how much more will be done. All landlords are not good landlords, though it may with truth be said that this country is blessed with very many high-minded men, having the interests of their tenantry very near to their own hearts; but that the capital of an improving tenant, which may be locked in the soil, should be left to the mercy and caprice of a bigoted and narrow-minded landlord is a state of things which calls loudly for redress, and which must before very long be changed. It has been thought to be impossible to apply legislation to the relations of land-

lord and tenant; but few, I think, will doubt that we are rapidly approaching the time when legislative protection will be the stronghold of English agriculture. Such protection should not, I trust it never may, loosen those bonds of natural esteem and regard which happily reign between so many landlords and their tenantry. It should rather be the means of creating a better feeling than that which may sometimes be found to exist; and, looking at the question in its broadest aspect, it almost seems to be an individual one, for it is a grave national question, one upon which hinges the incentive to a more commercial, and in consequence, a more enlightened treatment of the soil of this country. I am no advocate for fixity of tenure in its full scope and bearing. By such a system landlords would lose what it never can be expected they will consent to abandon, viz., a control over their properties, and it would result in their losing all interest in the improvement and development of them; or it might develop itself into such a condition of things as exists in Ireland under the operation of the Land Act, where landlords are paying enormous sums amounting in one instance to about 40 years' purchase of their properties as compensation to ejected tenants, and with no right of appeal. Such cases, I hear, are not unfrequent. In conclusion, we may congratulate ourselves upon having seen very vast improvements in our own time, due mainly to the energy of the tenant-farmer, and the skill of the engineer and mechanic; but let us also see some of those changes which I have ventured to advocate in the relations of the proprietor and cultivator of the soil, and great as are the resources of the country—great as is the spirit and enterprise of the agricultural community of this kingdom, agriculture will yet rise to a degree of perfection hitherto unseen, when the natural produce of the soil of the country will be very largely increased, and when every waste place will blossom as the rose.

The CHAIRMAN condemned the present system of the drawing up and wording of leases, as it was impossible to farm under them if they were strictly enforced; but the understanding seemed to be that if farmers cultivated well, although not in accordance with their leases, they would not be disturbed.

Mr. BENNETT considered that a liberal Tenant-Right was the basis of all good agriculture, that advantage being the inducement to all tenants to farm well, as they had some protection. He was almost in favour of a yearly tenancy, when there was a reasonable Tenant-Right, in preference to a lease without one. In the case of leases, whether for twenty-one, fourteen, ten, or seven years, he would have a Tenant-Right at the end thereof. With regard to game, he considered that there should be a distinct and strict understanding between landlord and tenant when the land was entered upon, as it was most unjust when a landlord increased the game, and, for all practical purposes, stocked the farm with game.

Mr. T. SCOTT, the secretary, said that a properly drawn and practical agreement ought to protect the tenant as well as the landlord, and ought to be so framed that the farmer felt that his capital invested in the land was secure. If this feeling existed, we should have tenantry of enterprise and with ample capital, not only making the most of the land under their care, but increasing its fertility and improving the fee-simple value, obviating the necessity of legislative interference, which, under existing circumstances, was loudly called for. Yet, for the security of the landlord, an agreement ought to contain such clauses as would ensure good farming, which is alike advantageous to the owner and occupier, and any clauses which might appear somewhat too stringent might be released at the discretion of the landlord or his agent. This should never be denied to a deserving tenant; but the great misfortune was that little distinction was made between a good tenant, who was annually improving his farm and thereby enhancing its value, and one who hardly gave the land what it made. Landed proprietors should not forget that it was an easy matter for a tenant, by his mode of management, to enhance or decrease the fee-simple value of the land ten to fifteen per cent., and that between the two there was a difference of from twenty to thirty per cent. in the value of his property. Eligible and improving tenants ought to have proper security for their capital engaged in their undertaking, and they should be entitled to compensation for unexhausted manures, and for permanent improvements made with the approbation of the owner or his agent. On the other hand, the landlord

should be paid for all damages arising from neglect or carelessness on the part of the tenant.

Mr. BROGDEN: Would a tenant give more for his land if he had the control over the game?

Mr. SCOTT: I think so. I know a farmer who would be willing to give five shillings per acre more.

Mr. BROGDEN: My opinion is that a good Tenant-Right is better than a long lease.

Mr. HARLAND did not believe that landlords, as a rule, wished to oppress their tenantry and deal harshly and unfairly towards them as regarded game, as when they appeared to do so it was because they really did not understand the question thoroughly. There was no doubt that the over-preservation of ground game was a great misfortune to those districts where it occurred, besides adding to the cost of the people's meat. He could not imagine how landowners would any longer continue the practice, if they did but comprehend the mischief that was done.

The Rev. C. H. SALE considered that tenants were for the most part pretty well able to take care of themselves and protect their own interests, in this country at least, but at the same time he must say that existing farm agreements seemed to be drawn up for the protection of the landlords, who were the most powerful class, and not for that of the tenants. This course of action was more necessary in former years than at the present time, because the tenantry in days gone by were men of no capital in the generality of cases, and were devoid of skill in husbandry, so that the landlord was compelled to have stringent farm agreements as a protection against bad cultivation. The tenantry of this day were a totally different class of men, as they brought skill and enterprise, and a large amount of capital, in the management of their farms, and therefore harsh agreements were now altogether unnecessary. As to the relations between landlord and tenant, he considered that they ought to be based upon what was strictly and conscientiously right, and that a tenant ought not to be discharged from his farm at the mere whim or caprice of a landlord, his agent, or even his gamekeeper. This should not surely be so. Under circumstances of this kind a farmer must be protected by a lease or good Tenant-Right, the latter of which should be exceedingly well guarded.

Mr. BENNETT referred to a farm which he had occupied in Lincolnshire, and which he held under exceedingly good Tenant-Rights, showing that he was made a liberal allowance for bones and lime and artificial manures, and other items, the whole of which amounted to £1,765. Tenant-Right was a strong inducement to any farmer to cultivate well up to the very end of his tenancy. In his case the Tenant-Right was perhaps upon too high a scale. It was a very bad system when the manures belonged to the landlord.

Mr. SCOTT said that a great many of the farm agreements were made to protect the landlord and not the tenant, the landlord consulting his solicitor in the matter, and the agreements were consequently made a little *ex parte*. He considered that in all agreements Tenant-Right ought to be included, as common sense dictated that good farming was beneficial not only to the tenant but also to the landlord, whose land was rendered the more valuable, and in the course of ten or twenty years he would find himself a much richer man. A yearly tenancy, with a good and liberal agreement, was the best form of holding land. Under an enlightened landlord, granting a really fair agreement, he should prefer a yearly tenancy to a lease.

The CHAIRMAN said that he and his neighbours had for many years farmed under lease, and they were satisfied. The worst feature of a lease was when there was a state of uncertainty towards the close as to a renewal of it. Under such circumstances the farmer was placed in a difficulty as to cultivation for the last three or four years. He moved a vote of thanks to Mr. Ford for his very able and excellent paper, and proposed his health.

Mr. FORD, in acknowledging the compliment, expressed his firm opinion that in all districts tenant-farmers required ample security, without which he did not see how any wise and prudent man could invest large sums of money in the cultivation and management of his farm. They must have security. If they had their money in the funds they had full security and 3½ per cent. interest. Their money ought to bear a proper percentage, and be perfectly secured. The land was a good bank in which to invest money when secured, and it would

return fair interest, and there was no fear of its breaking. Let the land always be made to produce as much as it can, and let those who invested their capital in its cultivation be made as secure as they would be in the funds, and capital would be constantly pouring into it, and far greater and more important benefits and results would flow into the country by the holding of land than had hitherto been known. It had been a sort of hobby with him to collect old farm agreements from different parts of the country, and some of them were so extravagant in their character as to excite the risible faculties,

the wonder being that men could be induced to take land under such unreasonable conditions. Many of these objectionable clauses still remained, and they ought to be expunged from all farm agreements. He expressed a hope that the British farmer would experience relief by a modification of the Game-laws. A committee had for some time been sitting on the subject, a vast mass of evidence had been taken, and he understood that one very important item of alteration would be the suggestion that hares and rabbits should be totally excluded from the game list.

UNEXHAUSTED IMPROVEMENTS.

At the quarterly meeting of the Notts Chamber of Agriculture, held in Mansfield, there was a small attendance, Mr. F. C. Smith, M.P., in the chair.

The CHAIRMAN expressed his regret that he should not have been able to attend the meeting of the Chamber held on the 6th April last, at Retford, and to have heard the discussion which took place on the subject which was to come before them again that day—unexhausted improvements. At the meeting of the 6th April the Chamber considered the question of unexhausted improvements, and Mr. Huskinson read a very interesting and able paper on that subject, and a discussion followed, which conveyed the views of the farmers generally in different parts of the county, and the opinion seemed to be generally expressed that the system prevalent in Nottinghamshire of valuation between the in-coming and outgoing tenant was as good as that in any other county, if not better, and also that our own valuers were equal to those in other districts, and generally, if not always, giving satisfaction between the two parties, which they must admit was a very satisfactory conclusion to come to. Whether it was owing to that conclusion being arrived at that they had not a larger attendance that day, or whether some of their friends were making hay whilst the sun shone, which they had not had the opportunity of doing during the last few weeks, he did not quite know, but certainly they had not a very large attendance that day. At the Retford meeting Mr. Hemsley moved a resolution to the effect that local bodies should recommend a system of payment for all unexhausted improvements suitable for peculiar districts, and the further consideration of that resolution was ordered to stand over until to-day. Unfortunately for their meeting Mr. Hemsley was engaged elsewhere, and two or three other gentlemen who had promised to be present were also prevented from attending. The following letter had been received from Mr. George Beaumont:

East Bridgford, Nottingham, July 8, 1872. Dear Sir,—I have decided *not* to take any part in the discussion on "unexhausted improvements" at Mansfield. In practice as an agent I try to do justice as far as I can, and the tenants' rights already existing in the South Notts district appears to me to be generally fair and reasonable. Unfortunately in these discussions all tenants are assumed to be good tenants, whereas, in practice, I find that the good tenants rarely quit their holdings, and I have to deal more frequently with exhausted farms than unexhausted improvements. Any arguments of this kind coming from land-agents at public meetings are met with distrust, and it is very difficult to speak out freely without giving offence. I am quite prepared to admit that in some parts of the county grievances do exist, and I would advise every tenant on taking a farm to insist on a written agreement in liberal and fair covenants; and speaking for myself and land-agents generally, I believe we are disposed to advise such land-owners as may rely on our judgment to enter into fair and reasonable agreements with their tenants, and to meet any suggestion in a fair and liberal spirit. Believe me, yours sincerely,

GEORGE BEAUMONT, JUN.

Mr. FIELD proposed the discussion be adjourned till the September meeting at Newark. He did not think it would be desirable, considering the smallness of the attendance, to discuss the matter now. He was in hopes there would have been a better attendance, but it did not look much like it,

Mr. BRETT (Oxton) seconded the motion, which was adopted.

The CHAIRMAN said the other subject set down for discussion was their old friend Local Taxation.

Mr. MARSH (Scarrington) thought it would be most in accordance with the feelings of the meeting that this subject should be also postponed; and this was agreed to.

Mr. MUSTERS said there was another subject of great importance to agriculturists which he wished to bring before them, although it was not down for discussion that day. This was certainly a small meeting for ventilating the question he was about to mention; but he thought it was one they ought to discuss, as it was of the greatest importance, both to agriculturists and to the public at large, as consumers of meat—he referred to the question of the foot-and-mouth disease. That disease, he believed, was very prevalent in some parts of the country, and was doing a great deal of harm. He was informed, indeed, that it had done as much harm in England as the rinderpest did. He believed that the cattle-plague itself, though a great misfortune, was to a certain extent good, because in connection with it they adopted means for preventing the removal of cattle, and checking the spread, not only of rinderpest, but of foot-and-mouth disease; pleuro pneumonia, and other contagious diseases to which cattle were subject. In that way the rinderpest might have been productive of some good. He considered, however, that this was a subject worthy of discussion, and it was more a question for them than another class of persons, because they were the people most directly interested in it. Therefore if this meeting approved, he should propose that one of the subjects to be discussed at the next meeting, should time permit, should be the foot-and-mouth disease.

Mr. FIELD said he had great pleasure in seconding the motion proposed by Mr. Musters, knowing as he did the great drawback this foot-and-mouth disease was to herds and flocks in many parts of England. The other day, in their parish, the foot-and-mouth disease broke out in a field in which no fresh cattle, nor any person, besides the owner, had entered, to the owner's knowledge. The gentleman to whom he was referring had been a great sufferer from the disease; in fact his flock was now down, and no treatment he could procure for them gave them any relief. Whether it was foot-and-mouth disease, or some other disease not known to their medical men, he could not say, but assuming it to be the foot-and-mouth disease, he was sure the losses occasioned by it ought not to be set so lightly on as they were. He saw that a deputation had waited on Mr. Forster from the Royal Agricultural Society on the subject, when that right hon. gentleman considered that it was so light a disease that he did not think it would be right to take any strong measures. He (Mr. Field) thought very differently, however, and if Mr. Forster had a herd of cattle or a flock of sheep down with this disease, he had no doubt he would be desirous of using the strongest measures. He would suggest that at the next meeting of this Chamber they asked the Government to stop the transit of Irish and other beasts, or examine them before they left Ireland and other places. It was quite clear that the whole of this disease had come to us, and that it had been brought by Irish or some other foreign beasts.

The resolution was adopted.

THE HEXHAM FARMERS' CLUB.

THE GAME-LAWS.

At a special meeting of the members to consider the desirability of asking to be permitted to give evidence before the Committee of the House of Commons on the Game-laws, Mr. Thomas Dryden was voted to the chair.

Mr. WM. TROTTER, the Secretary, explained that the meeting had been called, after due consideration in committee, in consequence of one of their members having expressed a very strong opinion "that evidence against the Game-laws should be tendered from the Hexham district." A letter had also been received from McCombie, M.P. for Aberdeenshire, the tenant-farmer representative, urging the Club to similar action to what was now contemplated, in order to bring all possible weight to bear on the Commons' Committee, which was at present sitting in London.

The CHAIRMAN: As the members of the Club had already discussed the matter, and had come to certain resolutions concerning it, they could, he thought, hardly let the present opportunity of giving evidence pass them; but what number of persons they ought to send, and who were best fitted for the important duties to be performed, were questions which clearly ought to be left to the Club for decision.

Mr. EDWARD ROWELL, in support of a deputation being sent to London, said that although the Game-laws undoubtedly exercised a great influence over the relationship between landlord and tenant, they assumed a far more serious bearing when looked at in a commercial light. As they were all very well aware, the high price of food, especially butcher-meat, was a matter of notoriety all over the north country; and this was greatly owing, he had no doubt, to the useless "preservation" of large quantities of land which might otherwise be employed for the feeding of cattle and sheep, and also to the damage and destruction which game caused to those crops which constituted so important a portion of the food of the people. It might be said that the price of corn was not high, and he admitted it; but still they must all agree with him that, owing to the constant demands which this country was compelled to make upon foreign sources for supplies, very large amounts of capital were taken away which could be more beneficially employed in other channels of commerce. If, for instance, they were to conserve their resources at home, and not wilfully have them destroyed by vermin, it would be much better for the nation at large. Undoubtedly, the community had a right—an indirect one, he must admit—to expect that the population should be fed from the produce of the soil; while he also maintained that no class nor party in the kingdom, however numerous, had a right to make the lands of the nation into play-grounds or sporting-places to the detriment and injury of any other branch of the community. He contended, further, that game, in which there was no private right of property, should have no special legislative enactments to protect it from those incursions which they so frequently saw made upon it by the poachers. In a commercial light, therefore, he was strongly in opinion that the Game-laws were altogether an evil; and, in a moral light, also, it could not be denied that many mischievous effects arose from them. Nothing was so prolific of crime amongst the population, and nothing led to such fearful hand-to-hand conflicts as were witnessed, far too frequently, between the game-keepers and the poachers. It had been said, and with some degree of plausibility, that if men who were disposed to poach had not facilities for getting game they would be compelled to get something else that was more valuable. This, however, was a poor argument in favour of the Game-laws being continued, because it only showed if they had not laws sufficiently stringent to preserve other kinds of property, and to teach offenders the peril they ran, the sooner they set about securing laws for the purpose the better. Now, as this club had already given its opinion very emphatically against the Game-laws, and had done so after the most mature consideration, they ought certainly to be prepared to justify that position by evidence before any committee of the House of Commons. For his own part, he had

not much confidence in the committee which was now sitting on the Game-laws, as he believed it had only been appointed for the purpose of decently shelving the whole question—but still as the evidence taken would be printed, and would be valuable as a means of instructing the nation, he thought the Hexham Club, occupying the position it did, should contribute what evidence they possibly could on the subject. Under these circumstances, he had pleasure in moving that they should send one or two of their members to explain the particular grievances of the district.

Mr. WILLIAM TAYLOR quite approved of most of the remarks that Mr. Rowell had made. It was a subject of great importance to tenant-farmers and the nation at large, and in many cases the landed proprietors themselves might be benefited by a change, if they could only see it, at least in a pecuniary point of view. Game was a great temptation in the way of working men, who looked upon hares and rabbits almost as much their property as the landlords', and they considered there was not much harm in taking them, provided they could catch them without being caught by the strong arm of the law. The working man thought there was not much sin in it, and although it was against the laws, he thought that such laws ought not to exist, and calmed his conscience in that way. A tenant-farmer signed a lease that bound him to protect the game, but in most cases the agent promised that he would take care that he would not suffer any harm by it, although that was never inserted in the lease. But it might be that the lease was no sooner signed than the verbal agreement as regarded the game was broken; and besides the landlord might die and things change considerably. The tenant might have embarked much of his capital in the way of improving his farm, and be unable to realise it under the altered circumstances, and the question arose whether he should leave the farm and lose all the time and money he had spent upon it? Hundreds of farmers had been completely ruined by the game. He contended that they did not exactly go into it with their eyes open, they were told quietly that they would take no harm by it, but such was not inserted in the agreement, although the agent took care to have it put down in black and white that the game should be preserved for the landlord. Tenant-farmers, in consenting to preserve the game for the landlords, should have a distinct promise in their agreements that all hares and rabbits should be kept down in such a way as to prevent them causing unnecessary damage to crops. His own opinion was that they should go in for the total abolition of the Game-laws, as he believed that nothing short of that would be satisfactory, and effectually stop the waste which was so much deplored.

The motion, on being put to the meeting, was carried with only one dissentient.

The CHAIRMAN said the next question to consider was as to who should be selected to give evidence. He quite agreed with Mr. Taylor that nothing could be really satisfactory except the total abolition of the Game-laws; but at the same time, believing this would be a difficult thing to accomplish, he was prepared to accept a compromise. If they could get rid of hares and rabbits to begin with, the other sources of evil would speedily disappear also. He did not, however, think it would be doing the members of the Club justice to only send persons who advocated total abolition, although if they went to the real bottom of the thing he believed that view of it was nearly right. There were hundreds and thousands of acres of land in this country that might be improved were it not for the game. He had no hesitation in saying that in this country there were thousands of acres which might be improved, and feed much larger quantities of beef and mutton, if it were not for the preservation of game. He thought that if hares and rabbits were in the hands of occupiers as well as owners it would be a step in the right direction, and would not be such a shock to certain members of the community as total abolition would be. He might say that he had not much confi-

dence in the committee now inquiring into the game question, as he believed the question would be shelved; judging from the evidence that had been taken so far, it was resolving itself into a question simply between landlord and tenant, the larger question never having yet been touched.

Mr. ROWELL was of opinion that if the towns would take the question up in its commercial bearing some remedy would very speedily be devised. The Club having decided by an almost unanimous vote to send a deputation before the Committee, the next business would be to appoint this deputation. They ought not to select men holding the same opinions, as they ought to represent the whole of the opinion of this Club, and it was a fact that there was diversity of opinion, although the majority of the members of the Club were decidedly in favour of the total abolition of the Game-laws. He, therefore, proposed that the chairman, Mr. Dryden, and the secretary, Mr. Trotter, should be sent to London to give evidence before the Committee, and he was sure two better men could not very well be found.

The CHAIRMAN expressed his desire to have the name of Mr. Joseph Lee, of Dilston, substituted for his own, Mr. Lee holding similar views on the subject, but it was stated that Mr. Lee was intending to travel for a short time on the Continent.

The SECRETARY remarked that Mr. Dryden seemed to have such a personal knowledge of the quantity of land kept out of proper cultivation through the preservation of game that they could not appoint a better person to represent the Club, although he must say he held some doubtful views as to asking what he thought to be right. He thought that Mr. Dryden, on mature consideration, would see that he was doing right in asking for what was right, and he trusted he would go before the Committee prepared to express such views as he had expressed that day as to the immense quantity of land kept out of cultivation owing to game.

Mr. TAYLOR seconded Mr. Rowell's proposal, to the effect that Mr. Dryden and Mr. Trotter should represent the Club before the Committee.

The proposal was agreed to.

ROYAL AGRICULTURAL SOCIETY OF ENGLAND.

DEPUTATION TO THE LORD-LIEUTENANT OF IRELAND.

A deputation from the Council of the Royal Agricultural Society waited on Earl Spencer, K.G., the Lord-Lieutenant of Ireland, and the Marquis of Hartington, Secretary for Ireland, at the Irish Office, on Monday, July 8. There were present:—Sir W. W. Wynn, Bart., M.P., President; Earl of Powis; Hon. W. Egerton, M.P.; Col. Kingscote, C.B., M.P.; Mr. Wells, M.P.; and Mr. T. Statter, (Mr. R. Neville-Grenville, M.P., joined at his own request).

Sir WATKIN WYNN introduced the deputation, stating that it had waited on Mr. Forster, who had intimated that with respect to the importation and transit of Irish cattle it would be desirable that they should see the Irish Government; they accordingly had waited upon His Excellency the Lord-Lieutenant and Lord Hartington.

Mr. EGERTON brought forward a case in Cheshire (it happened two years ago) that was distinctly traced to Irish cattle freshly imported. The disease (foot-and-mouth) died away last autumn for a time; but broke out again more virulently than ever this spring, and was now increasing with rapid strides. Mr. Egerton read a letter from the Chief Constable of Cheshire, who enclosed reports of two special cases from inspectors to prove that it could be again traced to freshly imported Irish cattle; he was of opinion that the disease was engendered on board the vessels.

LORD HARTINGTON: But all these cases were animals bought at fairs?

Mr. EGERTON: Yes.

Mr. STATTER stated that in six or seven cases he had bought Irish cattle and sheep from on board ships at Liverpool, Bury, and elsewhere; they did not go into or near a fair, and in three or four days the disease broke out among them without their having been in contact with other cattle.

Colonel KINGSCOTE spoke more especially as to Bristol, which port did not offend so greatly as it had done; but still Irish cattle from there had impregnated all the markets, fairs, and country round. Believed that the vessels were greatly the cause of so much disease, and urged that a more thorough cleansing and disinfection should be enforced.

Mr. WELLS stated that in his part of the country (neighbourhood of Peterborough) farmers clubbed together, went over to Ireland, and bought cattle; but that they were now saying they must give up doing so on account of the foot-and-mouth disease.

LORD POWIS believed that the disease was engendered on board the ships. He trusted that increased supervision of the cattle ships would be given both before and after a voyage, and every other precaution taken; in fact, the regulations really enforced as strictly as they were when the Irish wished to keep the cattle plague out of their own country.

The LORD LIEUTENANT replied that it was quite a new thing for him to receive a deputation asking for increased supervision and stricter regulations. The many other deputations he had received wished all restrictions taken off. In the interest of the Irish sellers he had always replied that such a policy would be suicidal; that if attention was not paid to regulations no one would purchase Irish cattle, and that they would then have to be put on the footing of foreign cattle. He had the power, and had exercised it to enforce cattle disease regulations in Ireland, probably much more so than in England, owing to the constabulary having more power and being under the Government. He had taken much interest in this matter; and had inquired from time to time, but had not been able to trace a case of infected Irish beasts having been exported, or of any Irish cattle having the disease without their having been to a fair or market between the time they landed and were sold. He had appointed inspectors at all the ports; they had been difficult to get, but the constabulary had been able to take their place efficiently; and special orders had been given last autumn at all the principal ports in Ireland that every animal should be inspected before it was shipped. Only one report of disease had been sent in.

The deputation having again urged most strongly that the vessels carrying any sort of animals should be thoroughly disinfected and strict inspection to this end enforced, His Excellency stated, Lord Hartington agreeing, that orders for the special inspection of ships should be given, and that all existing rules and regulations should be complied with.

THE CROYDON FARMERS' CLUB.

At the last meeting, Professor Pritchard, of the Royal Veterinary College, lectured on Some Diseases affecting the Intestines of the Horse; Mr. W. Taylor, of Wickham Court, in the chair.

Professor PRITCHARD began by reminding his hearers that in his two previous lectures he had spoken more particularly of the horse and indigestion, and said that in the present lecture he proposed to speak of the intestines, which they would probably conclude were more liable to disease than the stomach, both in regard to the frequency of attack and the variety of disease. The fact of the intestines having to receive the ingesta either in a digested or undigested form might account for the more frequent occurrence of disease. It appeared to him that the condition of the ingesta poured into the intestines depended upon the manner in which the stomach was performing its functions. The extreme length of the intestinal canal might also account for the fact of the intestines being more frequently subject to disease than the stomach. Another consideration was the amount of exposure the horse was subject to under artificial circumstances, often having to go for a considerable period without food while hard at work, and perhaps during that time exposed to all kinds of inclement weather, and then when allowed to take food allowed to take too much. These circumstances would account to a great extent for the fact of the intestines being so liable to disease. One of the most frequent diseases was bellyache or gripes. Scarcely a day went by with the stud of a large farmer without a case of that kind occurring. Under the term gripes, or bellyache, many different diseases of the intestines of the horse were thought and spoken of by the uneducated; such complaints, for instance, as diarrhoea, dysentery, enteritis, inflammation of the bowels cases of constipation, where the bowels are loaded with a quantity of food which they are unable to pass, obstructions by the formation of calculi, &c. Then again the horse's bowels, like the bowels of most animals, are subject to parasitic disease, and under some circumstances we get the forcing out of the latter part of the gut, technically termed "inversion of the rectum." He should content himself on that occasion not with an attempt to bring before their notice all the diseases he had named, but should select one or more of them which, to the agricultural world, would be of most interest, and which men not scientifically educated were better able to cope with than with those requiring greater knowledge. He would first select the disease professionally termed colic. As he had already said, under the term bellyache or gripes the uneducated spoke of every disease of the intestinal canal attended with abdominal pain. "The horse has got the gripes," says the waggoner, and if he is kicking at his belly and lying down and frequently getting up again, it is said to be the gripes. Now they might have those indications of pain arising from a variety of different diseases. The lecturer preferred to speak, first, of gripes as a simple disease, unassociated with others, and then to speak of other diseases attended with gripping pains, but not consisting simply of gripes. By colic, or simple gripes, he meant a spasmodic or cramped condition of the muscular coat of the bowels. They would remember there were three principal coats of the intestines—the external layer (the reflexion of the lining of the belly) and the internal layer, and between those, a layer of muscular tissue, like that by which we are enabled to move our limbs. Anything that gave rise to spasmodic action of that muscular tissue would give rise to an attack of colic or spasm of the bowel. Under different circumstances the malady passes under different names; hence you will hear of windy colic or gripping colic, or, in technical language, "flatulent" and "spasmodic" colic. In the spasmodic case the intestines become smaller than ordinary, and in flatulent colic they are distended by the presence of gaseous material. Spasmodic colic gives rise to the same sort of pain as when a man is seized with cramp in the calf. While the bowels are affected in that way, the pain will often disappear in one place, and gradually make its appearance in another

place. Flatulent colic differs in this respect, that instead of the empty bowel being constricted, and the calibre of it becoming smaller, it is distended by gaseous material, resulting from decomposition of the contents. He wanted to impress the fact that, although they commonly spoke of a horse having the gripes or colic when suffering from abdominal pain, he was not suffering really from colic except when the muscular coat of the bowel was in that cramped or spasmodic condition he had described. What are the symptoms of colic? It may be the horse is well and absolutely at work when his driver suddenly becomes aware of his being a little dull, and in a few minutes he suddenly stops in the road, and will throw himself down before the driver can get to him. Supposing he is taken out of harness and put into the stable, the probability is he will throw himself down and roll about, and strike at his belly, and give every evidence of active pain in the belly. That will last perhaps for half a minute, when he will get up, shake himself, stand perfectly still, and appear to have suddenly recovered. A short time, however, elapses before the symptoms reappear, when he lays down and kicks again, and bursts into a profuse perspiration, arising from pain. If we take the pulse at that time, we shall find that, instead of being from 32 to 36, which is the normal pulse, it has risen to 80 or even 100 beats a minute, but between the attacks it returns to its normal standard. That symptom is diagnostic of the disease because in other diseases of the bowels we get no variation in the pulse. In cases of inflammation or strangulation of the bowels, the mucous membrane is congested, and the animal is colder instead of warmer. In flatulent colic, when the stomach is distended by gaseous material, instead of having that violent pain, and the animal throwing itself about, and the marked periods of time between the attacks, we find the animal exhibits a mere dull pain, looking round at the sides, kicking at the belly, attempting to lie down, and so on, but not to the same extent as in spasmodic colic. Another marked symptom between the two kinds of colic is that in one (the spasmodic) the abdomen presents its usual size, while in the other the flanks are considerably extended. Among the diseases most likely to be confounded with colic is inflammation of the bowels, which is accompanied with gripping pains, and an excessive febrile condition of the body, exhibited in the exacerbation of the pulse. If the symptoms are carefully looked to, however, the diseases will not be confounded. In inflammation of the bowels, the pulse, instead of being quick and full, and easily felt under the jaw, becomes smaller and thready, and does not vary as in colic. The pain, too, is continuous and not intermittent, and while the malady lasts the animal is never free from pain as in spasmodic colic. Instead of throwing himself down, the horse will lie down quietly, selecting a well-littered corner where it is least likely to produce anything like concussion of the belly. The lining membrane of the nose, mouth, and eyelids is highly congested, and the animal, though sweating, is deadly cold. By those symptoms is inflammation of the bowels to be distinguished from colic and other diseases. Now what are the causes that give rise to these maladies? By knowing the causes and avoiding them, we can avoid the disease itself, which, though not fatal, is to be dreaded because it gives rise to others that are fatal. Exposure to cold is a cause of colic. An animal driven for miles at a pace that makes him heated, is pulled up in the street without shelter, the circulation in the skin is suddenly checked, an abnormal amount of blood circulates internally, and spasmodic action of the bowels frequently results. The same result is produced by giving a quantity of cold water to a horse, especially when heated, which has been a long time without food, as the water, when the stomach is empty, immediately passes into the small intestines. Suddenly changing a horse's food will give rise to attacks of colic. Supposing a horse has been feeding for a considerable period on dry food, and is then unguardedly allowed a quantity of green food (especially if grown in a wet season, and therefore containing a large amount of moisture),

the sudden change of food in the intestines will give rise to spasmodic colic. Indigestible food will very commonly give rise to it, and a horse suffering from indigestion is more liable to attacks of colic than one not so suffering; the food is brought into the bowels in an unprepared condition, acts as a foreign agent on the lining membrane of the gut, and an attack of colic results. Indigestion is perhaps the most fruitful cause of flatulent cholice. Crib-biters and wind-suckers, also, are commonly producers of windy colic. A horse suffering from colic, unassociated with any other disease, will in most cases recover, if the case is taken in hand early and treated properly; but if an animal apparently suffering from colic has a culculus formed in his intestines, then it is an obstruction, and not colic that he is really suffering from, and recovery then is uncertain; but in ordinary cases of colic, when treated early and treated properly, ninety-nine out of a hundred will recover. Colic sometimes terminates more unfavourably. It is not at all uncommon to find strangulation of the bowels result from colic. If horses suffering from that complaint are allowed to roll and tumble about and do as they think proper, mischief in many forms may take place. A horse suffering from either spasmodic or flatulent colic can be subjected to no better ameliorative treatment than walking (not galloping) him quietly about. It can do no possible harm. Some may say it excites circulation and gives rise to inflammation of the bowels, but is that more likely to do it than for the horse to be rolling and tumbling itself about? He had known great mischief resulting from the latter cause, and had seen three cases where the intestinal mesentery had been twisted completely round, and in such case there is very little hope of recovery. Other bad results also come from the horses rolling and tumbling about, such as rupture of the bowels, or rupture of the thin veil of membrane, when one portion of the intestine works itself through a hole in another portion, and that becomes a fatal result; when there is strangulation, rupture of the diaphragm or midriff, and various other kinds of displacement of the gut, all resulting from animals dashing themselves about while suffering from colic. If colic is not treated, and the bowels are allowed to remain in a spasmodic state for some period, inflammatory action sets in, and in nine hundred and ninety-nine cases out of a thousand the result is fatal. Veterinary surgeons will tell you they have known several cases of recovery, but he (the lecturer) doubted whether they were cases really, and whether they were not rather cases of impaction of the bowels, where inflammation had not set in. Then, again, if colic be not properly and early treated there is risk of a condition of bowel taking place which seldom, if in any cases, becomes righted—one portion of the intestines slips inside another portion, and that state of things is called intussusception, from which a horse seldom recovers, although the same thing in men is sometimes righted. The necessary operation cannot be performed so well on a horse because the lining membrane is so susceptible that even if a case is diagnosed the veterinary dare not operate. The fact of making a large opening in the belly sufficient to put the hand in and right the intestines would be tantamount to cutting the horse's throat. Having now described the diseases, he was willing to tell them what he could as to the best mode of treating them, but he warned them that unless they were perfectly satisfied that they knew what the disease was, they had better not attempt to follow out his treatment, as under such circumstances it might do more harm than good. Now supposing they were satisfied a horse was suffering from colic or gripes, they would be justified in administering diffusible stimulants combined with opiates. He would give from one to one-and-a-half ounces of sweet spirits of nitre, combined with one ounce of tincture of opium. He would give the first with the view of bringing about a diffusion of nervous force, of which they had too much heaped up in the bowels, and would give the latter with a view of alleviating pain, both on the ground of charity and of prudence. Supposing they were satisfied they had a case of spasmodic action of the bowels, and were certain it arose from indigestible food, he would advise that the same medicines should be given combined with a bold purgative—he should say aloes. Some would choose oil, but in his mind the safest purgative for a horse was aloes; and, as aloes were often adulterated, care should be taken to get the best Barbadoes aloes. If it was for a cart horse he would give six drachms of aloes in a state of solution, or combined with powder of opium. The dose

might seem large, but experience showed him it was quickly carried off by the kidneys, and that the dose might be repeated in 24 hours. He remembered a case in which he gave 36 drachms of aloes in 36 hours, and the horse recovered. The aloes was consumed by the kidneys, but in the case of oil it must remain in the intestines till it came out at the anus. Further, the horse should be quietly walked about, as he had already advised. Then supposing after the administration of the antispasmodic draught in an ordinary case of colic there was no sign of relief in one or one-and-a-half hour, he should not hesitate to repeat the dose, and it after three hours there was still no relief, and no symptoms of inflammation setting in, then he should not hesitate to give a dose of purgative medicine. All the while they were treating a case of that kind, they must be on the look out for some of those terrible effects which he had said sometimes accompanied or resulted from colic. For instance, where inflammation of the bowels set in some of the treatment he had been describing would be very bad, and he would not use diffusive stimulants. Again, if the animal was getting cold about the surface of the body, and the attacks instead of remaining intermittent became more continuous, he should be careful of purgative medicine, and then, if ever, bleed the horse, and, if he thought it was an attack of inflammation, bleed largely, from the jugular vein, or perhaps from both, for the sooner the effect was produced the better. He would bleed till he found the effect in the pulse. The lecturer reminded them that one of the best preventives of all these diseases was to keep the animals regularly fed and treated; that was why the army horses enjoyed such good health. He also advised that they should be watered before fed. Professor Pritchard then briefly referred to the history of some calculi exhibited on the table, and which had formed in the intestines of various horses, the largest being about the size of a bladder of lard, which was found inside a horse belonging to Mr. Jones, of Worship-street. It was not uncommon to find such stones in the intestines of the horse, and not only one or two, but sometimes as many as a hundred small ones. They formed in the small sacs, and remained, as might be imagined, for a considerable period, until they got dislodged from their sacs, and, becoming an obstruction, led, unless they could be removed, to the horse's death. The majority of these calculi were formed from lime salts derived from the food, and they were more common in millers' horses than in others, from the large quantity of bran and sweepings of the mill-floor, which they had among their food. In the sweepings they not only got a quantity of food containing a large amount of phosphate, but also a quantity of grit, chippings of the millstones, &c. If they examined the calculi they would find in the centre of each a nucleus of some foreign agent—in one case there was a nail, and in another a piece of iron, and in another a piece of stone. The lecturer produced a tray full of small calculi, all of which were passed by one horse, which died sometimes afterwards from pain in the bowels, and three larger calculi were then found impacted together in one part of the intestines. There was another kind of calculi (of which he had only one specimen with him), which was much lighter, because containing more vegetable matter. Another kind was made up entirely of a congregation of the silky-looking floss to be found in the husk of the oat. If anybody would take a piece of the calculus and compare it under a microscope with the floss from the oat husk they would find they exactly corresponded. The learned professor concluded by thanking his audience for their patient hearing of him, and resumed his seat amid applause.

Mr. STREETER asked the lecturer how long he thought one of those calculi had been forming?

Mr. PRITCHARD said that was rather a poser. It depended a good deal on the sort of food the horse was feeding on. If the horse was a miller's horse, taking a quantity of food containing phosphate, the calculus would form more rapidly than in a horse feeding on green food.

Mr. STREETER asked if any of the calculi exhibited by the lecturer had been taken from the bladder?

Mr. PRITCHARD replied in the negative. Those taken from the bladder might always be distinguished from the others, the latter always having something in the centre as a nucleus, whereas those from the bladder had no nuclei.

Dr. SNOTHOUSE said several of the lecturer's statements had certainly startled him very much. He wished to know if he had correctly understood him to say that if they gave a

horse water on an empty stomach it would at once pass into the small intestines?

Mr. PRITCHARD: Yes.

Dr. SHORTHOUSE said he could flatly deny that statement, having with Professor Morgan tried the experiment on various animals, and found that if you give water without food on an empty stomach it is absorbed by the veins of the stomach, or the absorbent vessels, and never passes as water into the small intestines. Then as to intersusception the lecturer had said it would be dangerous to operate. He wondered veterinary surgeons had never tried a very simple method, but he knew they were very fond of making blisters and using enormous machines. He had seen a number of cases in infants, and there was a very ready method of recognising it, and a simple method of cure without the use of the knife. The symptom of the derangement was similar in horses and children, a small oozing of blood from the anus. There was a very simple remedy, the use of the bellows or the injection of thin water gruel. He had seen 50 cases in which that remedy had been tried, and they had all recovered. The doctor went on to refer to what the lecturer had said about the twisting of the mesentery, assuming that the lecturer had said it had been twisted three times round, and arguing that that was impossible. It appeared, however, that he had misunderstood the lecturer, who had only said it was twisted once round, and to that Dr. Shorthouse agreed. He then referred to the lecturer's statement that when oil was given it passed off by the anus. That he distinctly denied; for whatever oil it was, whether linseed oil, or oil of turpentine, it went into the intestinal canal, where it mixed with the food and circulated in it, and passed off with the urine, to which it gave a fragrance like sweet briar. As to aloes, to which the lecturer had given preference, he admitted they disturbed a lot of decayed material which had to be got rid of, and that the kidneys acted as scavengers. He knew Professor Pritchard was driving at him when he stuck up for administering large doses, but as it was a vegetable he was referring to, he had nothing to say against the large doses; had it been a mineral he should have disputed it; but even though it was a vegetable he should be disposed to try half a drachm rather than six drachms, believing small doses to be the more efficient. He always used smaller doses than other people, and could cure the gout in three days by small doses. He doubted the lecturer's statement that aloes were often adulterated, and was astonished to hear him term colic a disease, when it was simply an involuntary spasmodic action of the muscular texture, attended with considerable pain, and he could hardly suppose it would be attended, as asserted by the lecturer, with a doubly increased pulse. He did not deny it, but it seemed extraordinary if it was so.

Mr. PRITCHARD said that as regarded intersusception, he believed the symptoms described by Dr. Shorthouse were only to be seen in children and men, and not in horses, and although, taking the history of a case and collateral circumstances, a clever man of experience might be able to say "I thoroughly believe this to be a case of intersusception, he doubted whether he could ever say positively that such was the case. The treatment suggested by Dr. Shorthouse was also quite out of the question. The doctor had said veterinary surgeons were fond of making blisters and using enormous machines, but the instruments used for horses were no larger in proportion than those used for men, and, therefore, if horse doctors used large machines so did human doctors. As to the administration of oil, the doctor had taken him rather unfairly, because when he (the lecturer) talked of oil he meant a fixed and not a volatile oil. The doctor said the alkali in the intestines affected them, but he denied it. When the bowels were in a state of spasm the secretion of the liver and pancreas oil was acting there as a direct irritant, and was most likely to give rise to irritation of the bowels, whereas aloes was taken off by the kidneys.

Mr. J. G. CATTRALL, a veterinary surgeon of 25 years' experience, was surprised at the theories set forth by Dr. Shorthouse, and especially by his statement that an enormous machine was used for performing an operation. Such a remark was calculated to mislead. He had never heard of such an instrument being used for that disease.

Dr. SHORTHOUSE: But you use it for others, and if it is right to use it for others it is right to use it for that. It is as big as a slop-pail.

Mr. CATTRALL had never known a case of recovery from intersusception, and he denied the existence of any such enormous instrument as that mentioned by Dr. Shorthouse. He differed from him also as to the use of oil, and the administration of small doses, and ridiculed the idea of his curing gout in three days.

Dr. SHORTHOUSE did not think Mr. Cattrall had thrown much light on the question. He would send him, next day, a veterinary catalogue, and a new one too, in which the large cylindrical instrument was illustrated. Mr. Cattrall said he had never seen one. Perhaps he had not yet mastered all the knowledge in the world; there might be some things not in his philosophy, and that did not come within the ken of his intellect. As to calculi, he had seen one at Mr. Charlton's, a miller, at Tunbridge, three times as large as the largest shown by the lecturer, and weighing 36lbs. Professor Pritchard also said there were some much larger in the museum of the Veterinary College.

CONTAGIOUS DISEASES (ANIMALS) ACT.

[From *The Gazette* of July 13.]

At the Council Chamber, Whitehall, on the 11th of July, present the Lord President and Mr. Forster, the Lords and others of Her Majesty's Most Honourable Privy Council, by virtue and in exercise of the powers in them vested under the Contagious Diseases (Animals) Act, 1869, and of every other power enabling them in this behalf, ordered as follows:—

1. This Order shall take effect from and immediately after the 31st day of July, 1872.

2. This order may be cited as the Carcasses of Animals Order of 1872.

3. In this order—the Act of 1869 means the Contagious Diseases (Animals) Act, 1869; master includes any person having the charge or command of a vessel; other terms having the same meaning as in the Act of 1869.

4. In addition to the powers and duties vested in and imposed on local authorities by Section 60 of the Act of 1869, and by Articles 36 and 37 of the Animals Order of 1871, every local authority is hereby empowered to make, from time to time, with the view of preventing the spreading of contagious or infectious diseases among animals, regulations for the following purpose:—For securing the burial, in accordance with the directions of Article 36 of the Animals Order of 1871, of the carcasses, being within the district of the local authority, of animals (including horses) which have died of any contagious or infectious disease, or the destruction thereof, under inspection of the local authority, in the mode prescribed by Article 37 of the Animals Order of 1871.

5. If an animal (including a horse) on board a vessel in Great Britain, or within three miles of the shore thereof, dies or is slaughtered in consequence of being affected with a contagious or infectious disease, the master of the vessel shall, with all practicable speed, cause the carcase thereof to be disinfected on board the vessel in such mode as the Privy Council from time to time direct or approve.

If he fails to do so, he shall be deemed guilty of an offence against this Order.

6. If any person throws or places, or causes, or suffers to be thrown or placed, into or in any river, stream, canal, or other water in Great Britain, or into or in the sea within three miles of the shore of Great Britain, the carcase of an animal (including a horse) which has died of or been slaughtered in consequence of being affected with a contagious or infectious disease, he shall be deemed guilty of an offence against this Order, unless he shows to the satisfaction of the Justices before whom he is charged that he did not know that the same had so died or been slaughtered, and that he could not with reasonable diligence have obtained that knowledge.

7. It shall not be lawful for any person, except with the licence of the Privy Council, to dig up, or cause to be dug up, the carcase, or any part of the carcase, of any animal (including a horse) buried under a regulation of a local authority, or under the direction of a Receiver of Wreck.

If any person acts in contravention of this Article, he shall be deemed guilty of an offence against this Order.

FRUIT FARMING AND KITCHEN GARDENING.

It is somewhat suprising that the growth of fruit trees, and their successful culture, should be, to a great extent, neglected in Cheshire and Lancashire. We seem in this particular to be going backward instead of forward. It would be an interesting inquiry to ascertain by a trustworthy return the number of fruit-trees of various descriptions that have been planted in Cheshire and Lancashire during the past—say five years. The number put in the ground would be found to be very limited. How many a little piece of land there is on farms that cannot be, or rather is not cultivated from its peculiarly out-of-the-way or awkward position. Why not fill such little bits of comparatively waste ground with fruit-trees, which would cost a mere trifle, and return abundant profit? Why should not apple, plum, and cherry-trees be planted along hedge-rows dividing fields, and along highways, instead of oaks, ash, and other trees? Along the roads on the Continent, in Germany especially, there are miles upon miles of cherry and plum trees planted, and why not in England? It has been estimated by Mr. Roche Smith that at a cost of £15 per mile apple-trees could be planted in England with the greatest success. It may be said that the crops of such trees would be invariably stolen. Some portions of them might, but a greater portion would be left to the grower, with common watchfulness on the part of himself and his servants. Look at the damson crops how plentiful they were in former years, and how cheap consequently. Whoever thinks of planting a damson tree? And yet a row of damsons might be set by the side of any ditch that would yield a large profit. If land occupiers would turn their attention to the planting of fruit trees in little regarded places, rely upon it the bread cast upon the waters would come back after many days, if not to the absolute planter thereof, at any rate to his children or his successors. Almost every farmer or occupier of land has found that his predecessors have done something to the place, which has benefited him, and, therefore, he ought not to begrudge some thoughtful and kindly act, for the benefit of those who come after him. It is quite surprising, also, how neglected are the sides of our railways. Miles and miles of now useless land might be planted with trees of all descriptions, while the southern and western banks of these great arteries of commerce might be covered with the strawberry plant, and low fruit-bearing bushes. It appears remarkable that enterprising men do not engage these railway banks for gardening purposes, which could be made easy and safe of access by a little good management and trifling expense. Even vegetables and culinary herbs might be grown on railway bank-sides. In proof of the capabilities of such spots for the purpose, witness the successful manner that the station-masters or their families cultivate little strips of land adjacent to their station-houses. Cherries could be grown in many localities with success. The Morello cherry is one of the most profitable of this description of fruit; it is sought for with avidity by those who know its value: it always fetches a high price, is an invariably heavy bearer, and will flourish in many an exposed situation where other fruit-trees would prove abortive. From the acid nature of this cherry the birds neglect it, and the pilfering school-boy turns his back on it with disgust. The black-heart, the bigaroon, and the Kentish cherry are more to his mind. The Morello cherry should be extensively cultivated. This fruit always meets with a ready sale, especially in the metropolis, where it is in great request. The mulberry tree is not much cultivated in Lancashire and Cheshire, but why it is not is unaccountable. It is a most prolific bearer; the fruit is a fine antiscorbutic, and is moreover delicious in flavour, either for dessert, pies, or puddings. In some parts of Cheshire isolated trees appear and thrive, and when they do not, from adverse seasons, the trees are extremely elegant and graceful to look upon. In the south of England, in one or two localities, mulberry trees are to be found in great numbers. At and about Southampton there are a great many, from the fact of Sir Walter Raleigh, under the auspices of Queen Elizabeth, attempting to introduce the culture of the silkworm in that vicinity. The silk produce did not thrive, but the mulberry

trees did. In South Lambeth, Surrey (within three miles of London), there are numbers of mulberry trees to be found. Every garden of any pretensions thereabouts can boast of one, and sometimes two of this excellent fruit tree. The reason this tree is so general in this part of England arose in this way: at the Manor House, South Lambeth, a handsome old mausion, which stands on the left-hand side of the road on the way to Stockwell, there dwelt in the time of James the First John Tradescant, a Dutch gentleman. During the latter years of his life, a friend sent him from Holland a large number of young mulberry trees. Finding so large a collection to be of no use to him, after planting several trees in his own grounds, he distributed the remainder to his neighbours, so that in the vicinity of the old mansion many noble old mulberry trees are to be found. The growth of pears does not seem to progress in Lancashire or Cheshire. First-class sorts of pears, grown against house-walls, otherwise useless, always obtain a high price. As much as sixpence per pear has often been given by hotel-keepers for fine specimens. In many instances the produce and entire crops of such trees are bespoke, and secured by those to whom money is no object. The writer is acquainted with a cottager having but a small garden, who in good seasons makes two or three pounds per year by an Espalier tree, and the produce of a Jargonel that climbs up his cottage walls. The medlar is not much cultivated in Lancashire and Cheshire, although it is a most wholesome fruit, and generally is a heavy bearer. To those acquainted with the management of ripening the medlar, it is a great delicacy, but not so to a Lancashire farmer's wife, who said she "could make nought on 'um," for she "baked and biled and stewed and persarved them, and made 'em into puddings, without making 'em tasty." Year after year the crops were given "to the pigs," who liked them "weel when they were rotten." Sensible pigs—"pigs of Epicurus breed"—were they. Vine-rearing appears to be little thought of in Lancashire and Cheshire. Perhaps the climate may be thought to affect its prosperity, but with care and attention a vine may be trained up a warm house-wall with a southern aspect, in these parts, and be found productive. Even if the grapes that are borne do not ripen sufficiently to make them fit for dessert purposes, wine can be made of an excellent description of sour grapes, vine tendrils, leaves and prunings. A perusal of Mr. Clement Hoare's treatise on the culture of the vine will repay the time bestowed upon it. The apricot standard tree is not much cultivated either, but it might be most advantageously introduced in dry climates. Apricots on kitchen walls have been known to yield immense crops, and realize yearly a large sum. In some villages of Kent, Surrey, and Sussex many a cottage rent is paid by the produce of its apricot tree. We are not too far north to hinder a successful cultivation of this beautiful little tree, which in the spring time delights the eye by the beauty of its blossoms, while the eye and palate are both gratified in autumn by the appearance of its golden-balled crop and the delicacy of the flavour thereof. Bee keeping in Cheshire and Lancashire appears to be on the decrease. For one beehive to be met with now, twenty might have been noticed thirty or forty years ago. Why this should be the case is so valuable and nutritious an article as honey is unaccountable. Such improvements in bee keeping have of past years taken place, in the sheltering and management of bees, that it is a surprising circumstance that such a branch of industry—the industry of others—should have been neglected in districts where flowers are to be met with so abundantly. A well ordered apiary will be found to provide a neat little sum to its owners, who can be soon taught to become thoroughly conversant with the mode of keeping their industrious little neighbours in the best mode and fashion. There are several little books on bee keeping to be bought for sixpence, which will, when backed up by a little experience, make any one skilful in bees and bee-keeping, and the profits will be found considerable in warm and favourable seasons. Of late years a new source of revenue in the way of food has arisen in the extensive cultivation of

watercress, and it is quite surprising to find what quantities of this wholesome, cheap, and agreeable adjunct to our breakfast or tea-tables are brought to Liverpool and Manchester, and other leading markets. A few years ago the cultivation of the watercress to any extent was confined to certain suburbs and vicinities of London, such as at Hackney, where large fields (if they may be so called) of cress may be still seen from the railway while passing the church. There are now extensive watercress growers in Essex, on the pretty little rivers running through that county, and there are some in Berkshire and Buckinghamshire, which supply the London markets. From these cress fields Liverpool and Manchester are supplied with the dark brown-leaved sort so much esteemed for its crispness and fullness of flavour. Quantities of cress are sent from Ireland, but the Irish sorts want the flavour of the English. The leaves instead of being a dark bronze brown are brilliantly green and long, the stem being very stalky. These cresses are not cultivated, but grow wild, and in some parts in the utmost profusion. The writer of this paper rambling over a farm in Cheshire happened lately to stand with the owner of it, by the side of a wide and handsome pond—or pit as it is called—some fish were sporting on the surface, when the writer remarked that there was a good sum to be got out of that pit annually with a little outlay and trouble. "Surely, not by the sale of fish" remarked the farmer, laughing, "for they are not worth catching." No, was the reply, "but if you would increase the growth of that little brown green-leaved plant you will make capital returns by the sale of it." The farmer entertained the usual doubts on the subject that rise in bucolic minds when anything new is propounded; but, happening to be visiting a neighbouring city, he there beheld large crates of watercress from the south, and equally large packages from Ireland, and it occurred to him, if profit could be got out of the article sent from a distance, it could be obtained when reared nearer at home. The consequence has been that he tried to raise watercress as well as land crops, and has been enabled from his ponds and ditches to send away large quantities of this valuable vegetable in prime order, and provide employment for the children in the cottages in his vicinity, in making the cress up in bundles. It is said that tan placed in a pit greatly improves and encourages the growth of the watercress. There is no doubt that a good sized pond, well planted with watercress, would produce a large return. In the cultivated cress grounds, the vegetable is grown in long trenches, supplied with water, let into them through flood gates, which regulates the quantity of water required. Few farms are without one or two pits on them that might be put into an extensive state of cultivation. Of late years watercress has been much recommended by the medical faculty, and in some infirmaries and hospitals it is very much in use, being rich in medicinal qualities. The extension of railways and the establishment of telegraphs have wrought great changes in the production of vegetables. Tracts of country in a good climate, that produced little or nothing worth before, are now pressed to the utmost in this branch of produce. From the Scilly Islands, from Cornwall, and Devonshire, come northward in the spring beautifully grown cauliflowers which can be retailed at prices from one halfpenny to threepence each. Years ago such cauliflowers could not be obtained, except in the height of summer, and then only at sixpence and eightpence each. It is only within the last sixty years that rhubarb has been brought into use as a culinary article. At first it was considered a curious experiment, and few would partake of pastry made of it, for fear of its supposed aperient properties, but within ten years of its becoming known, it was generally adopted, and has been daily increasing in popularity. Vast quantities of rhubarb are grown at Leeds, where it is forced to perfection, in long, dark, low brick-built forcing houses. In the neighbourhood of Dublin an astonishing number of cabbages are grown, which are brought to the English markets, and retailed at from twopence to fourpence per dozen. One wholesale dealer alone has been known to have paid two thousand pounds for a season's cabbages. The crates in which they arrive in England contain about eighty to ninety dozen each. Sometimes as many as two hundred crates per week are shipped from Dublin. The endive is a delightful salad, and deserves some notice. The great portion of the fine endive consumed in this country is brought from France, where it is cultivated underground, in dark places. Now, why cannot rhubarb and endive, and other

choice vegetables be reared largely and successfully about here? The soil and climate are both very suitable. In the neighbourhood of London, lettuces are grown to great perfection, notable in size and quality. It is remarkable that this fine salad is not more successfully produced in this part of England. It is interesting to know whence our great supplies of fruit and vegetables are derived. We have in the spring time new potatoes from Malta and Portugal, long before the crop is ready in England. From France we have cherries, grapes, plums, greengages. Apples are very early in the year obtained from Spain and Portugal. German fruits, such as plums and cherries, are shipped in amazing quantities, in their season, by way of Rotterdam and Hamburg. In the grape season last year, delicious grapes were imported from the South of France, being packed in the actual vineyards in baskets made on purpose, so that there should be little or no crushing. Had it not been for the troubles in France enormous supplies of grapes would have arrived last year, as the first year the experiment was tried of bringing them to England in this mode was found to answer well. In fact, the whole world seems drawn upon to supply the wants of the people of Great Britain. India sends some rare articles of food. China its ginger and mangoes. From North America we have many fine fruits. France, Spain, Portugal, and Italy provide for us. Germany and Holland contribute. We have pines from the Bahamas, and from Africa. The Mediterranean Islands and its ports ship to us delicious fruits unheard of, and untasted, before steam became a potent power, and helped humanity onward.—*The Journal of the Manchester and Liverpool Agricultural Society.*

THE "LOCAL" LOCAL-TAXATION AUTHORITIES.—Local taxation statistics must surely be under some glamour. Economists who had patiently threaded the tangled mass of figures which the Home-office annually laid before Parliament on the subject, concluded with little hesitation that the whole impost borne by England and Wales for local purposes did not much exceed £20,000,000 sterling a-year. Sir Massey Lopes, who for several sessions past has made local taxation his speciality, stated in the House this year that it amounted to £30,000,000. Sir Massey seems to have had no doubt about the accuracy of his data, however surprising his statement was to those familiar with the facts, for he recurred to the figures in the course of his speech. The return recently issued from Mr. Stanfeld's department, shows the authentic sum of these imposts in 1869-70 to have been a little over £21,000,000. That is the amount the ratepayers actually placed in the hands of the rate-collectors during the year. A writer in the *Chamber of Agriculture Journal* of Monday, with the Local Government Office document under his very eyes, arrives at a conclusion still wider of the truth; so far from it, indeed, that we quote the passage *in extenso* lest there should be a suspicion of exaggeration. He asserts that "in the local taxation returns, metropolitan local management, town rates, lighting and watching, sewers, drainage and embankment, burial boards and church rates, tolls and dues, bridge, ferry, and harbour rates, are jumbled together in the true Goshen style, with poor's rate, county and police rate, turnpike tolls, City of London coal and wine duties, to form one grand homogeneous total of annual receipts amounting to £27,995,732, not including money received from loans and other sources, amounting to upwards of £56,000,000." He continues: "These are grand figures not included in the Imperial revenue, but paid nevertheless by her Imperial Majesty's liege and loyal subjects, in most unequal and most unjust proportions." Now what are the facts as set out in Mr. Stanfeld's Blue-book? The grand total of receipts from all channels, and therefore inclusive of "loans and other sources," is £27,775,732, and no more. The £56,000,000 which the writer asserts to have been omitted must be a trick of his imagination. There is no such amount in the table. Were his statement correct, and the return amended according to his idea, the local taxation receipts for England and Wales would mount up to the astounding sum of £84,000,000 for one year. Well may the chambers of agriculture with one accord, if they put their trust in such delusive guides, raise their voices against these taxes.—*Pall Mall Gazette.*—[But surely *The Pall Mall Gazette* should have given the name of the writer of this most amusing letter—Mr. Genge Andrews!]

THE EAST LOTHIAN AGRICULTURAL CLUB.

PRESERVING GRAIN.

At the last monthly meeting held in Haddington, Mr. Harper, Snawden, in the chair, the subject for consideration was The Best Mode of Preserving Grain.

The CHAIRMAN said: The harvest time must always be a period of real anxiety to the British farmer, and the best mode of cutting down, securing, and preserving in good order what truly is to him the fruits of a year's labour must also be one of interest and attention. I know of few occupations more healthy, independent, and enjoyable than that of farming, provided rent and other collateral matters are suitable. But, however paradoxical it may seem, I know of none at certain seasons of the year attended with more care and anxiety, and against which foresight and energy are at times so thoroughly unavailing. Some mysterious blight, one night's bitter frost, may irretrievably damage the potato crop. After much labour in clearing and reducing the soil, we may secure a fine braid of turnips, which may rapidly be eaten down by the fly, or, after being thinned, they may be carried off by some grub. In a few hours a hurricane may lay on the ground a magnificent crop of grain, just about to be cut; or, after being stooked, how often do we experience a track of wet weather, which on some occasions renders it unfit for human food, and at least most materially depreciates its value in the market! I often think that farmers, when offering for a farm, too seldom make any calculation for the losses unavoidably sustained by disease in their crop or death in their stock in a climate peculiarly variable and uncertain as ours is. Hence we too often find that the profits arising from a succession of profitable seasons and good prices are often swept away by a succession of those that are just the reverse. Assuredly, no man as a rule now-a-days may enter upon the business of farming with the hope of making a fortune, for, notwithstanding the enhanced price of the products of the farm within the last few years, somehow most of us find—what with increased rents, annually increasing expense for farm-labour and manures, with occasional outlay for expensive farm implements—that there is more mental care and as much difficulty in making the debtor and creditor side of the cash-book to square at the end of the year as in bygone days. With regard to the practical part of the business before us, I don't think I can offer for your consideration anything but what your long experience had already taught. When the weather is favourable for cutting and carrying home to the stackyard, the work of harvesting is easy and pleasant, but when the weather is stormy, wet, or variable, one's temper, patience, and skill are often tried. You who live in the low, highly-cultivated, and highly-favoured parts of the county seldom experience much difficulty in harvest time. It is we unfortunate denizens, who dwell in the higher districts, who so often experience late and disastrous harvests, because the later the period of harvest the more changeable the weather. You may say so to us—Why keep so much in crop? Well, where white-faced sheep are kept among the Lammemoors, or on lower ridges, they must have young grass and turnips, and this of course necessitates cropping. To substitute blackfaced for whitefaced sheep would undoubtedly be to substitute an inferior for a higher class of sheep. But, now that lambs command such high prices in the fat market, much may be said on both sides of this question. It occurs to me that a great error is often committed by many farmers, when leading corn in doubtful condition, in not using "bosses" in their stacks more frequently. Much loss from heated stacks is often sustained in consequence. I am so impressed with the advantage of this that for the last few years I have been gradually increasing the number: indeed, last year I had not a stack without three upright props in the centre, while most of them had also tresses at the bottom so as to admit of a free current of air passing through the stack. Last year was peculiarly unfavourable for the higher districts of the country. I find by the memorandum-book I keep that we did not commence to cut until the 4th of September, and that we did not

finish leading until the 3rd of November. I suffered little from the shake, which some of you in the lower part of the county sustained so heavy a loss from. But in consequence of the long succession of wind and rain the grain got much discoloured. Latterly, I lost all patience, and when a dry day occurred—independent altogether of the wetness of the sheaf—we put it up in small stacks of two or three cartloads in the field of forty acres, using "bosses" very freely. We covered the stacks as fast as possible, thus shielding them from rain, but allowing them to get the benefit of the wind, and I was surprised to see how rapidly the corn dried. Such grain should not be thrashed or used until late in spring or mid-summer. I would, however, advise no man to force the stacking of grain in this way in the early part of the season, because the weather if wet is often also mild and murky; whereas in the end of October, if wet, it is also cold and boisterous, and not likely to engender sprout. In connection with this subject, I may state that the propriety of having the whole stackyard roofed in is now occupying the attention of agriculturists. In our northern climate I am a firm believer, not only in the propriety, but in the absolute necessity of covered courts for cattle to prevent the manure being weakened by rain. I hold that those landlords and factors who, against all reason and argument, are still building open courts, should be taken up for cruelty to animals. I am as little moved from this conviction by being told that cattle sometimes sweat and don't thrive in covered courts, as I would be, because there is disease and death in ill-ventilated and over-crowded apartments, therefore men, women, and children should throughout the year—night and day—be exposed to wind, rain, and snow. Certainly, covered stackyards would save the trouble and expense of thack and rope, and, perhaps in consequence, would enable the farmer to lead a little quicker, and besides, by shielding the entire stack from moisture, would thus allow him to thrash at all times, unless when raining. But in the meantime the subject is one only for speculation. Let those who would sneer at the idea remember that a vast proportion of the hay and grain of this country is now cut by machinery, that steam is not only now used for the thrashing mill but also for ploughing and cultivating the soil. These required not only genius for their invention, but also perseverance for their construction, and to overcome the prejudice and difficulties incidental to almost everything that is mechanically new; nay, it requires brains and hands to fashion new tools before they could be put in perfect working order. But in covered stackyards the case is simple. It only requires to be proven to the agriculturist that the expense of erection will be compensated by their utility.

Mr. HALLIDAY (Rosehall) said I have no doubt you will all agree that the cheapest and best way of drying grain is with a good sharp breeze in the stook before it is stacked. That, however, cannot always be got in this changeable climate of ours, and particularly in the higher or later districts of the county. There are many seasons when artificial aid to accomplish this would be of great advantage, and I would therefore suggest that a portion of the stackyard should be laid down with air pipes, fitted up with proper stands, raised from the ground on pillars—the centre pillar to be a hollow tube to convey compressed air from a set of fans into the stack or stacks, with an upright pipe perforated to distribute the air throughout the whole stacks. At present, with the high rate of land and labour, every effort has to be made to grow good crops, and I think it is equally important to preserve them when grown, even in the earlier districts, when grain may be taken in rather quick. Such means might also be applied with a good result. Most farm steadings have either a steam engine or other power that could be easily applied to driving a set of blast fans sufficient to discharge 5,000 or 6,000 cubic feet of air per minute, at a pressure of from 30 to 50 lbs. per square foot, which would be sufficient to blow the air from the centre throughout the whole stacks, and thus cause a strong

circulation, which should be continued until the whole are considered safe from heating. Suppose we were to blow five or six stacks at a time, each stack would have the benefit of 1,000 cubic feet of air per minute, or if ten or twelve stacks be blown at a time 500 feet of air, and so on. When necessary, the air may be heated by passing it over a coil of iron piping, through which the exhausted steam of the engine escapes, and thus raise its temperature and increase the drying power of the air to be discharged into the stacks. Grain, after being thrashed in a rather raw condition, might also be treated in this way. I trust before long to see such a plan applied to the drying and preserving of grain in the stacks, when the laborious and expensive mode of taking down and rebuilding of stacks would be at an end.

Mr. HARVEY (Whittingham Mains) pointed out that heated air would be required in damp weather for the purpose of drying the stacks. He would like Mr. Halliday to give some idea of what his contemplated apparatus would cost for, say, a 300-acre farm. He thought that the subject was one which the Highland Society might turn their attention to, and for the purpose of its elucidation give a premium, if necessary, of £500.

Mr. HALLIDAY said that it would be difficult to tell the exact expense that would be incurred by the plan he laid down. But, certainly, when one looked at the great disadvantage which farmers laboured under in not securing their stuff in good time, and sometimes getting it all spoiled, he thought that it would pay a very heavy percentage. ("That's not the question.")

Mr. HARVEY referred to some exceptionally wet years in which he said the crops were rotting before they could get a fine day to take them in. He questioned if the grain could then have been put in stacks even to undergo Mr. Halliday's system. It was an old and true adage, "Better spoil a pound in the field than in the stack."

Mr. SMITH (Stevenson Mains) stated that a friend of his own had, two or three years ago, suggested a plan similar to that proposed by Mr. Halliday. But as they all knew schemes of that kind took a long time to come to anything, it had occurred to him that it would be of immense advantage to the country if an experiment were made in the putting up of covered accommodation for the barnyards. They had a worthy representative of the landed interest present in Mr. Smith, of Whittingham, and he thought that gentleman might try it on a small scale on some of the model farms of which he had the management. He thought that the matter was a landlord's question. A tenant might perhaps pay interest on the outlay.

Mr. SMITH (Whittingham) thought that if they could have the courts and a portion of the cornyards covered it would be very desirable. It could not be expected that the whole area of the cornyards would be covered, but if that could be done for a number of the stacks it would be an acquisition to the farmer in the way of securing the safety of his crops. This was one of the matters of such importance that, as had been noticed, the Highland Society, which had to do with the interests of the country at large might turn their attention to. As they had the proper working staff, they could do it much better than any individual proprietors. The proprietors' interests were becoming more and more dependant on the tenants' prosperity; and if it could be shown that what was proposed was good for them, he was safe to say that they would not be slow to give every facility for what might tend to the profits of the farmers, as unquestionably it must contribute to their share of the profits of the land.

Mr. ROBERTSON (Newmains) gave information as to various methods adopted for the securing of the grain crops in the stackyard.

The CHAIRMAN said no resolution need be come to on the subject, as Mr. Halliday only wanted to ventilate his view. Moreover, the suggestions were new, and would require to be thought over by farmers, who were supposed to be rather a slow class.

After some remarks from Mr. Samuelson (East Mains), Mr. SMITH (Whittingham) proposed a vote of thanks to the chairman. A similar complement to Mr. Halliday, on the motion of Mr. George Hope (Fenton Barns), closed the proceedings.

The next meeting of the club will be held in October, when the subject of discussion will be the best mode of lifting and securing the potato crop.

THE GREAT FARM OF ILLINOIS.

Located in Ford and Livingstone counties, it lies, in a direct line to St. Louis, a distance of 100 miles from Chicago. Twenty years since, its owner, M. L. Sullivan, entered this and other lands from Government at an average price of 1 dollar 25 cents per acre. His determination seemed to be to keep himself "land poor," as the Western phrase is, until the disposal of surplus acres at a great and natural profit should give him the necessary funds to operate successfully a large farm. In 1868, just previous to his location on Burr Oak, Mr. Sullivan visited his native place, in the vicinity of Columbus, Ohio. In response to inquiry after his welfare and prospects, he said that he had run down from nearly 100,000 to 40,000, mentioning in a joking way, as one of his losses, the Broadlands Farm of 20,000 acres, which he had sold to Mr. Alexander for a quarter of a million of dollars. (Broadlands is to-day valued at more than 600,000 dollars.) In 1868 Mr. Sullivan commenced work on Burr Oak with 1,000 acres of corn. In the following year 5,000 were put in; in 1870 9,000 acres. At the present writing he has upwards of 11,000 acres of corn, which promises an average of fully forty-five bushels to the acre. Besides this there are quite 5,000 acres of other crops under cultivation. The estate embraces exactly sixty-five square miles—over 40,000 acres. Three hundred miles of hedge have been set out, six miles of board fence built for cattle and stock, and 150 miles of ditching (the ditches are seven feet wide, and average nearly two feet in depth) have been done to drain the wet places; numerous corn cribs, farm buildings, shops for various work; and a vast amount of work of all descriptions, in which a new place abounds. His purchases are invariably made in large quantities. For instance: fifty ploughs, fifty cultivators, &c. This enables him to make terms of the most favourable character. The hands, mostly Swedes and Germans, are engaged about the 1st of April, and are expected to stay until the 1st January. Two hundred and fifty men are required at present to work the farm. These, with the exception of a few who bring their own teams and work by contract, are assigned to the different farms and gangs. Mr. Sullivan is the commander-in-chief, Mr. J. M. Miner his brigadier; next twelve captains, each with three lieutenants, each lieutenant having charge of a squad of men, and immediately responsible to the captain or head of the farm for their work. Besides the organized farm gangs, there is a considerable force constantly employed in carpenter and mason work; a regular blacksmith's shop, with its four or five smiths; men constantly busy in the repair of machinery; the harness-shop, waggon-shop, painters, &c. In the fall of the year Mr. Sullivan finds it necessary to detail a certain number of men as gunners to kill or drive away the innumerable flocks of wild geese and ducks which would otherwise destroy thousands of bushels of grain. A synopsis, and few of the leading items, will serve to explain the system:

	Men.	Horses.	Oxen.
May, 1871	4,979 $\frac{3}{4}$	7,060	1,987
DAY'S WORK.			
	Men.	Horses.	
Overseeing generally	45	90	
Errands and chores	31	58	
Harness shop	8	—	
Water hauling	27 $\frac{1}{4}$	27 $\frac{1}{4}$	
Stables	191	160	
Blacksmith's shop	114	—	
Kitchens	273	—	
Implements and machinery	82	1	
Nursery	79 $\frac{1}{2}$	13	
Hedges	383 $\frac{3}{4}$	214 $\frac{1}{2}$	

The machinery used at Burr Oak would handsomely stock two or three agricultural implement stores: 150 steel ploughs, of different styles; 75 breaking ploughs; 143 cultivators, of several descriptions; 45 corn-planters; 25 gang-harrows, &c. The ditching plough, a huge affair of eighteen feet in length, with a share of eleven feet by two feet ten inches, is worked by sixty-eight oxen and eight men. These finish from three to three and a half miles of excellent ditch each day of work. The oldest hedges (Osage orange) are but three years' growth, but now stand fully seven feet high, and much of it is pigtight. Even here machinery is called in and the rows are clipped by a sort of an upright mower.—*American Weekly*.

THE GAME-LAWS COMMITTEE.

Mr. J. STEWART, who, in answer to Mr. M'Combie said—I am tenant on the farm of Auchrivie, on the estate of Monymusk, Aberdeenshire. I hold the farm under a nineteen years' lease. The arable land consists of 75 acres. I have expended about £450 in permanent improvements. I am bound by my lease to expend that money, and I will not receive anything in return when I leave the farm. In 1865, and again in 1871, I gained prizes offered for the best managed and cultivated farm. All the tenants on the estate are bound to preserve the game, and are prohibited from keeping a dog. We are not prohibited from keeping cats, but we are constantly getting them destroyed. I submitted to the Game clause in my lease because I could not help myself. In Aberdeenshire, where great competition exists for farms, there are Game clauses in all the leases. The game on the estate consists of roe deer, hares, partridges, grouse, snipe, and rabbits. The latter exist by thousands. The crops are very much damaged by the game in some places. In 1866 the tenants complained in a body to the landlord, Sir Archibald Grant, Bart. We represented that we were being ruined, but the landlord simply replied that we were quite aware there was game on the estate when we took our farms. I told Sir Archibald Grant that the deputation waited upon him in order to lay before him an account of the serious losses which were caused to the crops upon the farms in consequence of their being destroyed by hares and rabbits. Sir Archibald Grant told us that we knew there was game on the farms when we rented them. He said the farmers were a troublesome set of fellows, and he could do nothing to please them, and advised us, if we objected to the game being preserved, to give up our farms, and he would turn them into rabbit warrens. The deputation, finding that Sir Archibald Grant was not inclined to meet them in an amicable spirit, shortly afterwards withdrew. After that we commenced to kill the rabbits, but did not interfere with the hares. The landlord was very much averse to our destroying the rabbits. Game is increasing in Aberdeenshire, especially hares and rabbits.

By Mr. READ.—I am in favour of the total abolition of the Game Laws, at least so far as to give the tenants power to protect their crops. My rent amounts to £75 per annum. There is no mention of rabbits in my lease. If I had no lease I should be inclined to leave the farm. The grouse do not do a great deal of damage to the farms. There is an enormous quantity of rabbits upon the estate, and in that respect the estate is exceptional.

By Mr. BELL.—One of the keepers told me that 30,000 rabbits were killed upon the estate in one season, and about 10,000 more would be killed by the tenants. In 1869 I got a prize for the best managed farm. The grouse and pheasants do not do me any harm, but I am of opinion that the Game Laws with regard to them ought to be abolished. The first year I commenced to kill the rabbits I killed 400. I did not kill that number every year. I have nothing to say against the proprietors; we were always on good terms. When the preserving of rabbits commenced I took the farm knowing that the game on the estate was preserved. There is a good deal of poaching on the estate; a good deal is done by the farm-labourers, as well as by the people from the neighbouring towns. I think the landlords should be bound to let their farms at fair rents to good tenants, and that the game should be kept down. The rents could be fixed by valuation. I would preserve a reasonable quantity of game. It is only the excess of which we complain. There should certainly be a law for the punishment of trespassers.

By Lord ELCHO.—I have come here to speak of a special grievance rather than of a general one. In my own individual case my grievance is the excess of hares and rabbits. Since 1866 I have had the power of killing rabbits. Unless I had the power of killing both hares and rabbits I would not renew my lease. I would limit the tenants to practical farmers. Rents have risen very high in consequence of the competition of non-farmers. I would not make any special law on the subject, but by some means or other the committee should try

to devise means for checking undue and ruinous competition for farms.

In answer to other questions, the witness said he thought it would be a bad thing for Scotland if the grouse were entirely exterminated from the country. He never competed for a prize for the best managed and cultivated farm in the county until after he had commenced to kill the rabbits. If he had done so he did not think he should have gained one. The tenants who had no right to kill the rabbits had their crops very much damaged.

Mr. WALKER, farmer, Bithuie, Aberdeenshire, was next called and examined by Mr. M'Combie. He said: I have been trained and brought up to practical farming. My farm consists of 160 acres arable in addition to pasture. When I entered the farm the injurious effects of game were not felt. In 1856 the damage done to the crops by game was considerable, and every following year I received compensation. It is impossible for a valuator to correctly estimate game damage so as to do justice to the tenants. It is in my opinion unfair for a landlord to let land at its agricultural value, and then increase the number of game. Throughout the district game is preserved to an undue extent. I think that game preservation when carried to excess operates against the progress of agriculture. This is one of the greatest grievances of which the tenantry of Aberdeen have to complain. I consider game laws a breach of morality and contrary to the public good, and nothing short of their total repeal will be just and satisfactory. It was shown at a conference held in Aberdeen that a third of the tenantry in that county had suffered loss by ground game to the extent of £19,000. In 1869 there were ten thousand convictions under the Game-laws in England alone, showing that those laws were inimical to public morality.

At the meeting on Tuesday, the Right Hon. Ward Hunt in the chair, Mr. WALKER, in continuance of his examination by Mr. M'Combie, said he had written to the Commissioner asking him to put down the hares and rabbits; but the Commissioner, in reply, only gave instructions for traps to be laid down and also snares, but he would not allow witness to touch the rabbits, which was equivalent to their being allowed to eat up his crops. Witness then asked permission himself to kill hares and rabbits, but the manager of the estate said he could not allow that and that witness was complaining without cause. He then set traps himself to protect his crops, and in one fortnight he caught 272 rabbits. The Commissioner, in reply to an application from the witness to trap rabbits, said that if he did so he would do so at his own peril. Witness continued to trap them, and he then asked that a clause should be inserted in the lease permitting him to kill ground game. The Commissioner said that it would lower the dignity of the landlord if he were to enter into such an arrangement with a tenant. Witness offered £300 a-year for the shooting. He expected to be a gainer by the bargain, for there were thirteen tenants on the estate, and he expected to get £20 a-year from each of them. After this, he brought an action against the landlord for damages sustained by hares and rabbits and roe-deer, and he got £90 for compensation. He also brought another action, but it fell through owing to a technical objection, the farm having been sub-let. The witness then proceeded to read several letters, showing the damage done to the crops on neighbouring farms, but he was stopped by the chairman. He now held a farm under Lord Forbes, and paid a rental of £132. In consequence of the great increase of ground game during the first few years of his tenancy, he applied to the lessee of the shooting to take some steps for the protection of his crops. Instead of obtaining protection, the trappers received instructions to look out for snares. He applied to the commissioner of the estate praying for protection, but his application had been unattended to. When witness stated that he should protect his own crops, he was told that he was taking the law in his own hands. He kept dogs to secure the

covers and protect the land contiguous to the covers. Neither hares nor rabbits were mentioned in his lease. In 1870, the lessee of the shooting died, and he offered to pay £300 for the right of shooting, but there was so much prejudice prevalent among landlords that his application was refused. Did not think the £90 he had received for damage to his crops had nearly compensated him. He had five acres of turnips completely destroyed, and that he estimated alone at between £70 and £80. When he first entered the farm, he was informed that the total annual damage done by them during the whole of a nineteen years' lease was about £40. He did not think the country at large was any the better from the money spent in the Highlands by sporting gentlemen. The nation was undoubtedly increased by production, but not by the money spent by gentlemen in the autumn. With regard to the number of gamekeepers, he did not consider that the want of these men was any great loss, but as a rule when young men were raised up to be gamekeepers they became useless for agricultural purposes. In some instances soldiers had to be employed by farmers for want of regular agricultural labourers. Did not think that farmers would get much assistance from gamekeepers in such an emergency. Did not agree with Mr. Barclay that if a sporting gentleman leased £10 in Aberdeenshire it was a benefit to the country. In buying his produce shooting parties did not, in his opinion, greatly benefit himself or the country, because their relations were merely the relations of commerce, and they received value for what they paid. There would be no difficulty in disposing of farm produce if shooting parties did not visit the Highlands. It frequently occurred that gamekeepers caused a severance of the good feeling which should subsist between landlord and tenant. There were many instances of farmers being prevented from shooting rabbits on their farms, one particularly hard enforcement of this coming under his notice, in which a farmer was carried off by the police for shooting a rabbit at night.

By the CHAIRMAN.—Gillies got about 15s. a week. Thought all the tenants would be glad to pay a very much higher rental if they were allowed to kill ground game. The landlord might get perhaps double the rent.

By Mr. DENT.—Witness was in favour of the total abolition of the Game-laws. He would not be satisfied with merely taking hares and rabbits out of the game list. If the Game-laws were still maintained it would be necessary to have a much more summary mode of obtaining compensation than that which existed at present.

The remainder of the witness's examination was a repetition of his answers in chief.

The committee again adjourned.

Mr. SMITH (West Drums, Forfarshire), Chairman of the Scottish Chamber of Agriculture, in reply to the Chairman, stated that the Chamber had frequently had the subject of the over-preservation of game under consideration, and they had passed a resolution in favour of Mr. McLagan's bill, one of the objects of which was to take hares and rabbits out of the game list. They were opposed to the bill of the Lord Advocate, which proposed to vest the property in game in the tenant, as the witness was of opinion that it would leave the tenants in quite as bad, if not a worse position than they were now. It would result in creating an ill-feeling between the landlord and the tenant. Under the present law of Scotland the property in game was vested in the landlord only. What the tenant-farmers desired was that hares and rabbits should be removed from the game list, and that a joint and inalienable right should be given to the tenant to kill all ground game with the landlord. In granting this right to the tenant it was proposed that special authority should be given by him to persons to kill ground game, simply with a view to the prevention of trespass. This provision would certainly be in the interest of the tenant. The Scottish Chamber of Agriculture was composed almost entirely of Scottish farmers. In England there was a preponderating influence of landlords in the chambers of agriculture. The Scottish Chamber prepared a game-law, and had asked several Scottish members to forward it in Parliament, but they had all declined to do so. The Central Chamber of Agriculture met at Edinburgh in November, 1871, when they received various recommendations [from the county meetings on the subject of the Game-laws. After discussing them, they passed

a resolution resolving to petition Parliament in favour of the total abolition of the Game-laws. Five years prior to this the Chamber had desired to drop hares and rabbits, and he could only account for the rapid change to more advanced opinions in consequence of the Legislature being so very slow in dealing with the question. In one case he knew of the proprietor letting the shooting to his tenants at the rate of 6d. an acre. This was attended with the most beneficial effects, as the proprietor was a keen sportsman, and kept down, in conjunction with his tenants, the amount of game. Witness could not say what was a fair amount of game to an acre of arable land, but thought a good sportsman ought to be content with shooting half a dozen hares with partridges in one day. He had no doubt but that in 1866 the Chamber of Agriculture would have been satisfied with a very moderate measure, and they might be so still, only he would advise Parliament not to cut it too fine (laughter). The witness then proceeded to quote the opinions given by the various county Agricultural Chambers in Scotland on the subject of the Game-laws; all of which were in favour of an alteration of the existing law, with regard to the right to kill ground game; with some going so far as for total abolition. Rabbits used to be confined to coverts, but now they spread over a very large surface of land. They proved very destructive to young plantations, as well as to the arable crops of the farmer. It was quite impossible to feed either sheep or cattle over grass lands on which hares and rabbits fed. The witness handed in statistics to show the destruction to plantations by hares and rabbits; and, in reply to Lord Elcho indignantly denied that the Scottish Chamber of Agriculture had anything in it of the character of a trades' union.

The witness was still under examination when the committee adjourned.

On Tuesday, July 2, Mr. Ward Hunt presiding,

Mr. SMITH, President of the Scottish Chamber of Agriculture, being recalled, handed in statistics which had been given into the Chamber as to the amount of game sold in Scotch towns, and the proportion of the ground that was cultivated.

Sir J. ELPHINSTONE was then called, and in answer to the Chairman, said: I have an estate called Logie, in Aberdeenshire. I believe it was my property that was referred to by one of the witnesses, Mr. Stewart. I deny the accuracy of the assertions he made. I have always very rigorously kept down the rabbits. So far were they reduced in 1870, that we only got 752 rabbits. Last year they rose to 2,100. There are 1,000 acres of wood, and a few acres of arable land. Whenever a complaint is made by any of the tenants, people are sent to shoot them down. The tenants have the privilege of keeping down the rabbits. I think the damage done by game in Aberdeenshire has been very much exaggerated. I know in some places a certain amount of damage has been done. In 1871 the returns showed that there was about one-half of the soil under cultivation, while in 1853 there was only about a third. The wood area has been very much reduced in consequence of the introduction of railways. There is a large quantity of waste land which, from its elevation, is not available for cultivation. In all countries, as is well known, there is a height above which cereals will not ripen. Aberdeen being one of the most mountainous portions of Scotland, has of necessity a considerable quantity of uncultivated ground.

By Sir JOHN TRELAWNEY.—I am not personally acquainted with the way that cultivation is conducted up the mountains in Switzerland, but it must be remembered that the power of the sun is much greater there than in Scotland, the consequence being that in Switzerland the cultivation can be carried much higher up than it can be in Scotland. The rents of shootings vary very much. I would not like to say what they might represent in the aggregate.

Mr. WARD HUNT: I am told the aggregate rent is over £10,000.

WITNESS: I have no doubt it may be. I don't think the farm tenants would give as much as the shooting tenants give. I never heard much of the damage done by game until 1866, when an agitation was got up by the newspapers and public agitators. It has been throughout a political question, and little else. I completely deny many of the statements that have been made in the course of this agitation. There was a conference on the Game-laws in Aberdeen. The

proprietors were nominated at the county meetings. The representatives of the tenants were principally men who had made themselves notorious by their unreasonable opposition to the Game-laws, and exaggerated statements they had been making. I have seen some statements got up by the conference. They appointed the Sheriff-Substitute and the Superintendent of Police to collect the statistics. I thought that it was not a constitutional employment for a judge to investigate claims which might afterwards come before him in another form; therefore I and a number of other proprietors made no returns. The returns were anonymous, and the damages were assessed by the parties themselves.

MR. CLARE READ: Two of the previous witnesses said the returns were signed.

WITNESS: The names of the parties never appeared, and thus there was no opportunity to test the accuracy of the statements or rebut the charges that were made. Then we considered that there was nothing more difficult to assess than the damage done by game, and we objected to these parties assessing their own damages. If, on their own returns, the damage was stated to be only £19,000, out of a rental of something like £800,000, and if the names had been made public, the damages would probably have dwindled away altogether. I was born in Aberdeenshire, and have lived there a considerable part of my life. I know the county well. I am not aware that there is a great excess of ground game in any part of the cultivated portions of Aberdeenshire. It is in the woodland part of the county that the game has increased. I think the damage done to the turnips can only be done when the snow comes down, and then the greater portion of them are packed away.

By Sir J. TRELAWEY.—I do not think it desirable to preserve rabbits to excess, but they are not in the game list just now, and there is nothing to prevent their being kept down. I do not consider hares a nuisance. What I say is, that if you destroy all the hares and rabbits in Scotland you will not have a score more cattle, and the price of meat will be very much increased, especially to the poorer classes.

By Lord ELCHO.—The estate of Monymusk is an exceptional estate. The soil consists of soft gravel, and is very favourable for rabbits. I do not think that estate would give a fair idea of the state of game in the county. The very fact that it is always referred to as an estate where there is an excess of game, proves that it is an exceptional case, and when it consists of only five or six thousand acres I do not think it can be taken as a fair criterion. Generally speaking I do not think there is any real game grievance in Aberdeen. There are the exceptions which prove the rule. Rents have steadily increased in the county within recent years. There is no difficulty in getting tenants to take leases with agreements as to the game. There are a great many more tenants than farms, and the competition is consequently pretty great. Most of the competition is between men who are practical farmers. I believe that concurrently with the Game-laws, or in spite of them, the reclaimable land has all been reclaimed. I attribute the noise that has been made about the Game-laws to political agitation. This agitation relegated me to the south of England.

Do you believe the towns take any interest in the Game-laws?—The people in the towns read the papers and believe what they see there, and so, of course, there is a class that may be said to take an interest in them, but I believe the working classes do not care about them. The working classes look upon the rabbit as their best friend.

MR. CLARE READ: Yes; when the rabbit is dead.

LORD ELCHO: One of the witnesses examined here was Mr. Barclay. Do you know him?

WITNESS: I knew him at the time of the rinderpest.

LORD ELCHO: Do you consider him an authority upon agriculture in Aberdeen?—I cannot say that I do. I have followed the agitation on the Game-laws, but I have not read all the speeches that were delivered on the subject because they were so much alike that they became tiresome. There is not a similar sameness about the remedies proposed. One is the taking of the hares and rabbits out of the game list, and making it illegal for the tenant to give up his right to them. I do not approve of this, because I believe it would be an interference with the right of contract, and I believe one of the great reasons for the prosperity of Scotland is the fact that there are leases and complete freedom of contract. The

effect of such an alteration in the law as is proposed might be one of three things—to introduce breaks into leases, to do away with leases altogether, or, in the case of determined game-preservers, to make them take their land into their own hands. I do not think it could have the result that some of the tenants expect.

By MR. STURT.—If a proprietor's covers were adjoining another property, I think he should put up fences; but if they adjoin a portion of his own estates, it rests with himself to say what should be done.

MR. M'COMBIE then undertook the cross-examination of the witness, and was proceeding to question him on what a certain landed proprietor had said in an after-dinner speech, when he was interrupted by the chairman, who said he thought it a waste of time to put such questions.

MR. M'COMBIE withdrew the questions, and then went on to ask witness: You say you know Mr. Barclay?

WITNESS: I know him, but I do not believe in him.

MR. M'COMBIE: He was the author of at least one good act—the "stamping out" process in the rinderpest?

WITNESS: I deny that he was.

MR. M'COMBIE was proceeding to inquire how the Rinderpest Association was formed, when he was again interrupted by the Chairman, who thought the question aside from the work of the Committee.

MR. CLARE READ remarked that Lord Elcho had introduced the subject by asking who Mr. Barclay was.

MR. M'COMBIE, however, withdrew the question; and, referring to what witness had said about the interference with private agreements, said he would like to ask him whether it was not the primary principle of the law to set aside agreements which were pernicious or antagonistic to the common good, and, for example, whether it would not be considered proper to prevent a man's marrying with his own grandmother, even though a priest had been procured to perform a private agreement between them to that effect?—The witness declined to answer the question, and it was not pressed.

Mr. Clare Sewell Read, M.P. for West Norfolk, was then recalled for further examination by Mr. M'COMBIE and other members of the Committee.

MR. M'COMBIE: Do you think that, in spite of what the chief constables say on the subject, the experience of the farmers and public of the mischief arising under this act during the last ten years, fully justifies the resistance offered to its passing through the House of Commons in 1862 by Sir George Grey, at that time Secretary of State for the Home Department?

MR. READ: I believe in my previous answer I said I objected to the principle of the Poaching Prevention Act, but that I believed that in consequence of the judicious way in which it was carried out that it would be beneficial rather than otherwise.

Is it not strange, that since the passing of this Act there has been an increase of poaching in the county of Somerset and elsewhere?—I have no acquaintance with the county of Somerset, and I do not know that there has been a steady increase of poaching. I thought it had kept about the same level.

Are gamekeepers much disrespected by the farmers?—I think they are generally very much disliked by the farmers.

Are the statements of landlords as to the quantity of ground game to be taken as gospel?—Certainly not.

Are you of opinion that the existence of gamekeepers in such numbers cements the union between landowner, tenant-farmer, and labourer?—No.

Do you think that if the hares and rabbits were given to the tenant you could go on without gamekeepers?—Yes.

Would you allow watchers?—I think farmers would always take care of the winged game, and would keep ground game in moderation.

As I understand you, it is not true that farmers would be worse gamekeepers than the squires?—I think it is a calumny.

Do you consider that the Game-laws have a demoralizing influence on the masses of the people?—I do not believe in the demoralizing influence of the Game-laws as far as concerns winged game, nor in reference to a moderate amount of ground game.

You think that a code of laws, the convictions under which have increased from between four and five thousand in 1845

to upwards of ten thousand in 1872, wants some amendment?—Yes.

And you are really of opinion, speaking for the farmers of England, that it is all a question of hares and rabbits to the tenants?—I think that would solve the mystery. If you look at the convictions under the Game-laws, I should say, speaking roughly, quite three-fourths are for offences against ground game.

Are you speaking for the farmers of England?—I have said before and I say again that I only presume to speak on certain matters as appointed by the Central Chamber of Agriculture and the Farmers' Club.

Do you represent the Farmers' Club?—Yes, I do.

It has been said that if the Game-laws were repealed there must be a stricter law of trespass. Are you of that opinion?—I do not suppose that all trespassers are poachers, but if there was no game to poach there would certainly be less poaching.

Would there be any trespass law required if there were no Game-laws?—Yes.

If the supposed increase of trespassers proves to be a real evil, and not a mere bug-bear, Parliament can at any time pass an improved trespass law, can it not?—Parliament can at any time alter any law.

You would not consent, I presume, as a tenant-farmer, to the passing of a new Game-law disguised under the name of a more stringent trespass law?—No.

Do you think any one would attempt that in English game preserves?—I do not think they would.

I would trouble you with one or two questions as to the present inquiry. I presume you would wish it to be a *real* inquiry?—I should wish it to be a much more satisfactory inquiry than it has been lately.

Are you aware that Mr. Bruce said no committee was needed?—I believe he said something of that sort.

Did the farmers think the bill of the Lord Advocate made bad worse?—The farmers of England did not take much interest in the bill. It was confined to Scotland. I said the other day I would not give twopence for it, but there is a clause in the bill which might be productive of good. I very much object to the idea of making law cheap between landlord and tenant by getting rid of the Game-laws, but I do think that a law to allow the creditor of an insolvent farmer to go against his landlord would be beneficial, because I am sure that in many cases the insolvency of farmers in Norfolk is due to over-preservation of ground game.

The CHAIRMAN: Would that bill have provided what you wish?—I thought it gave power to the tenant to bring an action against his landlord for undue preservation of game. I wish that the same rule should also apply to the man's creditors.

Mr. M'COMBIE: But in any case Mr. Secretary Bruce was not the person to originate the notion of a Select Committee, although on the part of the Government he assented to it?—I believe Mr. Bruce objected to the Committee in the first instance, and afterwards assented to it.

Do you think the country will be satisfied unless we make a full, searching, and impartial inquiry?—I think it has been made a very rambling inquiry. I should like to have a full inquiry into the Game-laws, and should be glad if other subjects were not gone into before the Committee.

You do not believe that the farmers have taken fright, as some members of the Committee seem to suppose, at the length and the acuteness of the cross-examination to which one of their brethren was subjected the other day by this Committee?—I believe very few farmers would like to go through a severe cross-examination in this chair.

You think they would be "men" enough to face the Committee, and say what they have to say on the question?—Yes.

Under the circumstances, you will agree with me that a considerable number of members of the House of Commons will not be satisfied unless this is a full and searching inquiry?—I think there are a great number of members of that House who do not vote for the abolition of the Game-laws who would wish this to be a full and searching inquiry.

When I asked you the question if you had anything to do with the land besides renting a farm, you stated that you had a property of your own on which you let the game. You are, then, a proprietor as well as a tenant-farmer; naturally, you must entertain jointly the feelings of proprietor and tenant?—

I have not been a proprietor more than five years, and I do not think that my natural instincts as a farmer have vanished in that time.

Did you let the game on your farm to the tenant?—Yes: (aside) I do not suppose there is a hare in all the place now.

Did you state that the Scottish Chamber of Agriculture went first for Mr. Lagan's Bill, then for Mr. Loch's, and now for total abolition.—That was proved by the evidence of the Chairman of the Scottish Chamber of Agriculture last Friday.

Does not this show that Scotland has been steadily drifting to total abolition?—Yes, you have been at sea on the subject.

Do you think it possible that the farmers of England may arrive at the same conclusion?—I think it is possible, though not probable; but if hope is so long deferred you cannot tell what they may be driven to.

You said you knew tenant-farmers who do not wish to abolish the Game-laws?—I was at our agricultural show at Kings Lynn, and I asked every Radical tenant-farmer I saw and I did not find one who wished for the abolition of the Game-laws.

Mr. WINTERBOTHAM: You said every "Radical farmer." Did you ask any of any other political persuasion?—I perfectly well knew what their sentiments were without inquiry.

Have no Chambers gone for total abolition?—I do not answer for any county but Norfolk in that respect, but I do not recollect any Chamber that has passed a resolution for the total abolition of the Game-laws. There may be some that have.

Do you know the Hexham Farmers' Club?—No, I do not.

The CHAIRMAN: We have got the Secretary coming.

Mr. READ: I only know that the Hexham Farmers' Club is not a Chamber of Agriculture.

Mr. M'COMBIE: Is it not strange that they should have to apply to me, a Scotch member, instead of to one of their own country?

The question was objected to, and the room was cleared.

On the re-admission of the public,

Mr. M'COMBIE: Do you really think the constituencies will be content to have the Game-laws settled by some arrangement between landlord and tenants, irrespective of the general interests of the nation?—I believe that the farmers would be satisfied, and I think the county constituencies also. I do not wish, and I do not pretend to know the sentiments of the town constituencies on the question. I think if there was a diminution in the number of hares and rabbits it would be a good thing for the nation.

Is it your deliberate opinion, as a farmer, a proprietor, and a public man that the nation at large would submit to accept any such arrangement as a final and satisfactory settlement of the game question?—I think the agricultural portion of the kingdom would.

What I should like to know is this: As a subscribing member of the Central Chamber of Agriculture, do you mean to say that the Central Chamber of Agriculture sends you here, or is it only the Council?—At a full meeting of the Chamber of Agriculture composed of delegates from all parts of England I was requested to come here and give evidence on the Game-laws, and I have put before you the resolution which was passed on that subject.

Have the 99 local chambers been consulted, or even the members of the Central Chamber itself, upon this question of game?—Certainly, we have had it on at least two occasions.

What, 99?—I do not know whether the whole 99 had been consulted, but a great number of them sent up delegates on the game question.

Mr. M'COMBIE: I have no more questions to ask.

Mr. M'LAGAN: You say the Central Chamber of Agriculture came to certain resolutions on the Game-laws?—Yes.

Will you read them?—(The resolutions were handed to the hon. member.)

Mr. M'LAGAN: According to these resolutions you will be satisfied with a bill that embodies the third clause of Mr. M'LAGAN's bill, and the fourth clause of Mr. Loch's bill, with some modification of the law of trespass?—Yes.

What is the third clause of Mr. M'LAGAN's bill, according to your interpretation?—I believe it is dropping hares and rabbits out of the game-list.

What do you understand by that?—Taking away the exceptional protection which hares and rabbits enjoy under the Game-laws.

That is as regards tenants, as well as the outside public?—Yes.

Then will you explain to me what you understand by the fourth clause of Mr. Loch's bill?—The fourth clause of Mr. Loch's bill gives the joint and inalienable right to the owner and occupier to kill ground-game.

I have got Mr. Loch's bill before me and I do not think you will find it comes up to that. It says that it shall not be lawful to deprive the tenant of the power to kill game, and that any agreement or contract entered into in contravention of this section shall be void, and have no effect. According to that clause, has the tenant the inalienable right to hares and rabbits?—I believe no.

Could the tenant give his right to a third party?—I am not a lawyer, but I should say no.

I understood you to say that the opinion of the Chamber is that the tenant should have an inalienable right?—Yes.

Whatever this clause may mean?—Yes.

I understood you to say in your first examination that the tenant should have no power to transfer his right to a third party?—Not to a third outside party: not to let the game to a tenant.

You mentioned one Scotch Chamber of Agriculture that first went in for Mr. Mc'Lagan's bill, and then went in for the abolition of the Game-laws altogether?—Yes.

Did they entirely approve of Mr. Loch's bill?—I understood from the witnesses who were here on Friday that they first approved of your bill and then yours and Mr. Loch's bill together.

Yes; but not Mr. Loch's bill alone?—Certainly not.

In your examination the other day, you mentioned several cases in which there might be interference with contracts, and you mentioned, particularly, interference with contracts between masters and servants?—Yes.

Can you give me an instance where the law interferes with a contract between master and servant?—The Legislature brought the Truck Act in.

Has that interfered with master and servant's contracts?—I suppose it has not, or we should not have further legislation this year. I should say in the Factory Acts it has interfered.

That is as regards women and children?—Yes.

I want a case as between master and workman?—In the case of pilots. I should like to take the case of mortgages between two able-bodied men who meet to lend and borrow money on land. If what I say is done in mortgages, why cannot the right to kill ground game be made inseparable from the tenant?

Do you think such a right for the tenant to kill hares and rabbits would be practical?—I think it would be quite practical. It would have the effect of keeping down hares and rabbits.

Do you think it would have the effect of exterminating hares and rabbits altogether?—Certainly not.

Do you think that game-preserving landlords would not take advantage of the position of the tenants if such a law were passed: that is to say, they would not keep the tenant on their farms if he would not give up his right to kill hares and rabbits?—I think landlords, as a class, obey the laws now, and would obey the laws then.

I do not put it as a case of disobedience to the law, but I am speaking of an agreement. He might put the tenant out of the farm?—He might, and very likely would.

That might be prejudicial to the tenant?—I do not know. It might be the best thing that could happen to him, to turn him out of a game-farm.

In that case, you would be of opinion that such a modification of the law would not have the desired effect of keeping down hares and rabbits?—I think it would have the effect of keeping down hares and rabbits to a reasonable extent.

Mr. PELL: You were asked for an instance of a free contract being interfered with. Do you know the nature of contract which a servant enters into with his master for the year?—We very seldom engage them for the year.

You know the law prevents the contract being broken, and interferes with the wishes of servant and master to break that contract?—Generally speaking, they cannot break the contract.

That contract can only be broken in the presence of a magistrate, and subject to his approval?—I think so.

An HON. MEMBER observed that if the master and ser-

vant desired to terminate this agreement, the magistrate could not prevent them.

Mr. PELL: They cannot break the agreement without the magistrate's consent.

Mr. READ: They have to go through the form in order to show that the weaker man is not oppressed by the stronger.

Mr. PELL: Is there any decrease in the quantity of game in Norfolk?—I should say there is a great decrease in the quantity of ground game in Norfolk in the last four years. I have known a case where a good shot stood in a corner of a plantation, and without moving shot 94 hares. I believe there are not 94 hares on that estate now.

To what do you attribute the decrease of this ground game?—Very much to the agitation on the subject, the force of public opinion, and the reasonable force which Chambers of Agriculture have generated. I think there was a time about ten or fifteen years ago when there was a little ground game as there is now; but there was a revival of the mania for battue shooting ten years since, which has now happily declined.

Do you know any case where a tenant has been paid for the damage done by ground game in Norfolk, and where the money so paid has amounted to more than the rent of the farm?—I stated the other day the case of a farm which was let for £300 a-year (but which was worth £1,000) in consequence of the game raised upon it. I also know a case in which the landlord let his farm subject to damage done by ground-game; and the tenant instead of paying rent had to receive it: still he left the farm. Another tenant took it; the game was killed, and it is now a good farm.

Have you known tracts of land for growing roots reduced to dead fallow in consequence of game?—Yes.

That would be a great loss of food?—A great loss of food, and a great loss of employment of labourers.

Is any objection made to the use of modern machinery in consequence of the injury apprehended to game?—I have known some landlords object to both mowing-machines and reaping-machines; mowing-machines, because they cut off the heads of young hares and partridges, but I think it has almost entirely died away. These objections are not made now as they were a year or two ago. I may say ten years ago.

Mr. DENT: You should ask whether labourers did not raise objections in the same way?—They did some years ago; but now I do not think they object to them at all.

Mr. PELL: Can you give an instance of interference in the cultivation of land in your occupation in consequence of desire to preserve game?—Speaking generally, in the first place I would say that when a large quantity of ground-game is preserved it is impossible to grow vetches or green crops for early spring feeding. In my own case I have abandoned the cultivation of such crops as carrots or kohlrabi. I have no wish to complain of the quantity of hares. I have little more than I ought to keep, but hares are such travellers that if there is a small crop of carrots within two or three miles of them, they will come and eat them. My father took a farm in 1832, on a 16 years' lease. There was no game upon it, but in one year, 1844, rabbits had increased to an enormous extent, and upon making repeated applications to the landlord we were allowed to kill them by nets, and in August and September of that year we killed 2,846 rabbits upon the open lands. We sold them for £27. We had paid £8 for the use of the nets and men's wages, leaving £19 balance for eight acres of barley and ten acres of wheat which were destroyed; and that was entirely extra to the damage done to the farm. This was a long time ago.

Would you say instances of that nature are to be found now?—My father left the occupation of that farm about 20 years ago. I am confident of this that during the last twenty years there has not been so much produce grown on the farm, by something like £8,000.

What size is the farm?—About 600 acres.

An HON. MEMBER: Is that a Norfolk farm?—Yes.

Mr. PELL: Permission is very generally given by landlords in your county to take ground game?—Not unreservedly. It is given in a good many instances. The rabbits are more often given to tenants to destroy as they like, but in the case of hares there is very seldom an unreserved right to kill them. Generally speaking, the permission is to course them during certain months of the year.

Are there restrictions put on that, such as not to shoot or to

kill with a dog; not to net or to snare them, not to trample them about the ground?—Yes.

How do warreners take rabbits?—They take numerous traps into the place, and set them, but the more general practice is to take a quantity of nets and dogs, and ferret them.

Then is it the fact that the tenants are not allowed to take the most effectual means to kill these rabbits?—No, they are not, and as a rule they are not allowed to follow into the plantations, which is most essential.

Then you say the right to the tenant is not sufficient to protect him from the rabbits?—If he might kill them any way he pleased, I think it would be almost sufficient.

Do you think there is any difference in the amount of injury caused by the same head of game at different seasons of the year?—Yes; game this year does comparatively little harm. In 1868 and 1870 there was great destruction of crops on arable land.

I mean different seasons of the year. What is your opinion of permission to kill after the damage is done?—There is very little satisfaction to either party.

I think Sir George Grey asked you to give the Committee the particulars of an appeal in a game case, at the Norfolk Quarter Sessions?—A man named Edward Smith was convicted in a penalty of £2 10s., and was imprisoned two months in default. In March, 1870, the same person was charged with the same offence, in order that he might be adjudged to pay under the Excise Law. The bench declined to convict, on the ground that it was against the law of England to convict a man twice of the same offence. An appeal was made to Quarter Sessions, where the man was convicted in the mitigated penalty of £5, and was imprisoned three months in default.

There is a large number of pheasants kept in Norfolk?—Yes; a large number.

Is there any cause to complain generally of them?—Certainly not generally; but damages have been awarded to tenants for damages by pheasants. In one case a man was awarded £10 for injury done by pheasants being reared. There were an immense number of coops with hens.

Mr. DENT: That was taking a field and occupying it?—Yes.

Mr. PELL: You keep French birds a good deal in Norfolk, and you are not particular what you do with them?—I have been in the habit of killing French birds all the year round; and having carefully examined their crops, I have found in them an immense number of grubs, wire-worms, and caterpillars.

You look upon them as good friends to the farmer?—Yes. The Committee adjourned.

At the meeting on Friday, July 12, Mr. W. Hunt presiding.

Mr. J. W. BARCLAY, farmer, Auchlossan, Aberdeenshire, was recalled, and examined by the chairman.—You told us you wished the Legislature to interfere with contracts in regard to game. Is it your opinion that if I possessed an acre of land in Aberdeen and covered it with houses I should be able to let it as I liked, but that if I possessed an acre of land a little way out of Aberdeen and used it for agricultural purposes the law should interfere with any contracts I might make?

WITNESS: That is not my proposition. My proposition is that whether the land is in the town or in the country, the nation, through its representatives, has a right within certain limits to control its use.

The last time you were here you told us you had business premises in Aberdeenshire, and that you did not wish the law to interfere with your contract in regard to them. Do you wish to modify that opinion now?

WITNESS: No; I only say now what I said then—that the cases are not parallel, because in the one case you deal with the land and in the other with buildings. I would object to a person holding land and laying down unjust rules, and I think in certain circumstances the law should interfere.

In the case of pleasure gardens, do you think that the law should interfere with them?—I think there might be circumstances in which the Legislature would be under the necessity of circumscribing the area of pleasure grounds. I think that the population would increase more rapidly were it not for the Game and Deer-laws. The argument is this—that the conversion of large districts of agricultural country into game-preserves and deer forests, and the consequent turning of the

population out of country districts, had the effect that the population has increased very little.

Perhaps you are aware that the country population has decreased generally over the whole of the kingdom?—I have no special information in regard to England.

In answer to further questions, witness said he had no hesitation in saying that if the Game-laws were abolished the rural population would be larger, and if the system of land tenure were altered the rural population would be larger still. Unquestionably the proprietors of certain estates would get more by letting land for sheep farming than for game. He did not agree that the deer forests employed more men at higher wages than would be employed on the same ground in sheep-farming. With respect to statistics furnished by the Aberdeen Game Conference, he admitted that the statements were sent in by the tenants, and that they could not be tested. He believed, however, that the answers given were honest, although it might possibly be the case that the amount of damage was somewhat exaggerated. He was satisfied that a very great amount of damage was done throughout Aberdeen by the game contracts, and a money compensation did not cover the real damage done to the crops. The assessment of the shooting rentals in Aberdeenshire amounted to £9,766. The average rental in Aberdeenshire was £1 per acre. The tenants paid poor's and other rates, which averaged about 1s. per acre. So that the rental might be put down at £1 1s. per acre. In his opinion, the farmers of Aberdeenshire, in sending in estimates of loss, had calculated only the direct loss, whereas they should have also calculated for loss of future crop, the loss in feeding cattle, and the consequent loss of manure.

Mr. DENT: You know that there is a good deal of planting going on on some estates in Aberdeenshire, and that the sheep have been taken off for the young plants. You would not interfere with a proprietor in his planting operations, would you?

Mr. BARCLAY: Not within a reasonable extent. But, suppose the price of timber made it profitable to rear wood, to the exclusion of agriculture, would it be in the interest of the nation to allow a proprietor to plant large tracts of the face of the country to the undue lessening of the food supply?

Mr. DENT: Do you think that the preservation of game is any injury to the country?

Mr. BARCLAY: When the interests of agriculture are sacrificed to the interest of game, I think the preservation of game is an injury to the country? I know that the population of Glentanar has decreased since last census.

Lord ELCHO: Do you know that as a fact?

Mr. BARCLAY: It has been established on evidence to my satisfaction. The rents in Aberdeenshire are now so high that I don't think the land would let for much more if the game were destroyed. I would not grant any compensation to landlords for interference with their rights in game. The landlords now get far more out of the lands than is due to their personal exertions. I don't for a moment admit the money invested in land yields far less interest than for anything else. Indeed, I believe that, generally speaking, land during the last fifty years has yielded five per cent. at least, I should consider it perfectly fair to increase the restrictions on landlords when the public interests demand such a policy.

Mr. PELL: Then you would consider it fair to put further restrictions on landlords; but would you not object to similar restriction upon your own occupation? You are a farmer and shipowner, are you not?

Mr. BARCLAY: Yes; and as such the Legislature does interfere with me. It does not permit me to make what bargains I like with my men, and it controls me in a variety of ways. The price of stags is about 6s. per stone of 14 lbs. Mar Forest could supply from £14,000 to £15,000 worth of wool and mutton annually. Just now it supplies almost nothing to the food supply or to the national revenue. Mar Forest at the outside will not yield more than 200 hinds, weighing no more than 10 stones each.

Mr. WHITEREAD: Don't you know that it is the custom to give away these hinds among the poor people?

Mr. BARCLAY: I don't know that it is. They are given away sometimes, but not always. If the forests were under sheep the poor people would get more food in the shape of raxy animals than they do in shape of weak hinds. Venison besides, is extremely poor food.

By Mr. M'COMBIE.—It is not correct as stated on Tuesday that there is hardly any land left to cultivate in Aberdeenshire. The returns sent in by the farmers of Aberdeenshire are, in my opinion, honest returns. It is not true, as stated by Sir James Elphinstone, that the game grievance in Aberdeenshire is no grievance at all, but a political agitation. The population of the parish of Aboyne has slightly increased since 1801. The villages of Castleton of Braemar and Ballater have also increased; but the population in Glenmuick and Glendee has decreased to a considerable extent. On the state of Troup, in Banffshire, fourteen holders had to leave because of game between 1861 and 1871, and upwards of 300 acres are now unoccupied which were occupied twelve years ago.

By Mr. CAMERON.—In 1811 there were about 10,000 acres of deer forests in Braemar. Now there are, I should think, more than 20,000 acres. The additions to the forests have mostly been made since 1830. Since 1811 the population of Braemar has decreased by over 400, and this I distinctly attribute to the increase of deer forests.

Mr. Cameron asked a number of other questions, the object of which was to shake Mr. Barclay's evidence given last day, but the effect of Mr. Barclay's answers was to strengthen what he had previously said.

The Committee adjourned till Tuesday, when Mr. Barclay was again under examination, chiefly in reference to deer forests in the Highlands.

Mr. JOHN SHEPHERD, farmer, Gleghornie, East Lothian, was also called to give evidence. He said he was in favour of the total abolition of the Game-laws; but Mr. McLagan's bill was the only measure before Parliament which met his approval.

Mr. CHRISTIE, Scotsraig, Fifeshire, who has been frequently engaged in valuing damages caused by game, gave important evidence on this point.

The CHAIRMAN, stated that since the Committee had been instructed to go into the question of deer forests, he had given up all hope of being able to report to the House this session.

At a meeting on Friday, July 12, Mr. W Hunt in the chair, the first witness called was the Earl of AIRLIE, who, in answer to the Chairman, stated that he was the proprietor of estates in various parts of Forfarshire, and also in the county of Perth. He possessed a deer forest, but by far the greater part of his estates were let to agricultural tenants.

The CHAIRMAN: What is your practice with regard to game on your estates?

The Earl of AIRLIE: With regard to rabbits, I look upon them as vermin, and I exterminate them wherever I can find them. With regard to hares, I keep them down upon the whole part of my estates let to agricultural tenants, with the exception of one or two farms adjoining land in my own occupation. On these I keep a few hares, and also on the land in my own occupation, but everywhere else I keep hares down as well as rabbits.

The CHAIRMAN: Have the tenants the power of killing the rabbits themselves?

The Earl of AIRLIE: No. I may mention that a few years ago my tenants complained that their turnips were very much cut up by hares and rabbits, and they asked me to employ a larger staff of men for the purpose of keeping them down. I said I would not do that, because they only paid their expenses at present, but I added, "if you like, you may kill the hares and rabbits for yourselves." They tried that for a year, and at the end of that period my factor told me they would rather revert to the old system, and we have gone back to the old plan, and I now keep down the hares. During that transitional period, the tenants had the concurrent right with myself to kill all ground game, and they themselves preferred to revert to the old plan that I should keep hares and rabbits down. I have never heard any serious complaints since. When I let shooting I reserve to myself the right of keeping down the hares and rabbits. I only let to shooting tenants winged game.

The CHAIRMAN: So that the shooting tenant has not the power of keeping up a great stock of ground game to the injury of the tenant.

The Earl of AIRLIE: No. Although a tenant may have the power of killing hares and rabbits on the land in their own agricultural possession, yet if he has not the power of fol-

lowing rabbits into their covers, and killing them, of course they cannot as effectually keep them down as I can.

The CHAIRMAN: Is your practice as regards ground game the same as your neighbours?

The Earl of AIRLIE: There is a great variety of practice on some estates in Forfarshire, but there are very few estates on which rabbits are preserved. I let moors for grouse shooting from which I derive about £1,700 or £1,800 a-year.

The CHAIRMAN: Are the sheep cleared off your grouse moors?

The Earl of AIRLIE: I never heard of such a thing. I heard a statement made before the Committee the other day to that effect, and it was quite new to me. It is common for proprietors to make regulations with regard to the burning of the heather on the grouse moors. My keepers superintend the burning; in fact, the farmer tenant is not allowed to burn where he likes.

The CHAIRMAN: Do you consider that the quantity of sheep kept on the grouse moor is at all limited by the consideration of its being let as a grouse moor?

The Earl of AIRLIE: That is a question rather difficult to answer; but I should doubt very much if it limits the number of sheep. I do not know, if the regulations with regard to burning are reasonable, that any such consideration diminishes the quantity of sheep that can be kept on a grouse moor.

The CHAIRMAN: Evidence has been given before this Committee that if it were not for deer forests a much larger population could be maintained in those parts now devoted to the preservation of deer. Have you any opinion on that subject?

The Earl of AIRLIE: I doubt very much whether a larger population would be maintained in those particular places by keeping sheep upon them instead of deer. My own idea is that if you keep a deer forest the number of people employed in it is larger than the number of people who would be employed in tending sheep upon the same ground; but I must qualify my answer so far that of course the keeping of a sheep farm is in more general use than the keeping of a deer forest.

The CHAIRMAN: You mean that more food for the human race can be procured by devoting the land to sheep than to deer?

The Earl of AIRLIE: That is all I mean. But as regards the particular locality, I should be disposed to say that a deer forest maintained a larger number of families than sheep farms. There is no doubt a Highland proprietor can get a larger rent for a deer forest than for a sheep farm.

The CHAIRMAN: It has been stated to us that the farmers themselves would give a higher shooting rent than the shooting tenants would give. Do you think that is so or not?

The Earl of AIRLIE: It may be so in some cases, but I believe that in the majority of cases as regards my own tenants, they would not, except with the view of keeping down game. They don't care for it.

The CHAIRMAN: Do you think, in letting the shooting separately, proprietors are influenced by the consideration of making the most of their property? Evidence has been given before us that the proprietors do not consult their own interests by letting moors for grouse-shooting, and that a great deal more might be made of them if they were put under cultivation.

The Earl of AIRLIE: I heard some evidence given the other day, that if the tenant of the grazing were allowed to deal with the moors as he liked, he would give a rent equal, or more than equal, to that for grazing with shooting combined. I should be glad if that were so, because grazing rent is much more secure than shooting.

The CHAIRMAN: Then you would prefer letting it as a whole to the grazing tenant than having two tenants?

The Earl of AIRLIE: Certainly, if I could get the same rent.

By Mr. DENT.—The usual term of letting in Scotland for agricultural purposes is nineteen years. My farms are let on forty years' leases; but it is not common to give a lease for so long a period as that. The ordinary length of a shooting lease is three, five, and seven years.

The CHAIRMAN: Proposals have been made for changes in the Game-laws. Have you formed any opinion as to what the result of the total abolition of the Game-laws would be?

The Earl of AIRLIE: Yes. In the first place, it appears to me to go beyond the necessities of the case. What is complained of

is the undue amount of hares and rabbits; but in abolishing the Game-laws, I think it is perfectly clear you abolish not only hares and rabbits, but grouse and partridges, and all sort of winged game. It seems to me that, quite apart from our pecuniary interests, that would be a clear loss to the public. I think that if the protection of game was altogether withdrawn, game would be virtually exterminated, because as long as they fetched a price in the market, and there was no prohibition against killing them, people would go in search of game and kill it. I think that would be a clear loss to the public, because as regards grouse I never heard any complaints from my tenants about that kind of game. They do now and then, late in the season, eat a little corn. Then, as regards partridges, I never heard any one complain, and these are two classes of game which form a very valuable article of food, of which large quantities are consumed. There is another ground on which I think the abolition of the Game-laws would be undesirable. It is a matter of great importance that men who are hard worked—such, for instance, as members of the House of Commons, especially those of them who are in office—should have means of relaxation to relieve the mind of the strain to which it has been subjected. This would apply to members of the learned profession and all those upon whom there has been very great pressure during a part of the year. I believe there is no man so hard worked as a Secretary of State, who is also in the House of Commons; and I think it is of great importance to that man that he should be afforded means of relaxation; and as far as I know, most leading public men seek relaxation either in fishing or shooting, or in both.

The CHAIRMAN: Apart from the question of politicians, is it not the case that a great number of persons who are great benefactors of their time, medical men and others, seek relaxation in the same way?

The Earl of AIRLIE: No doubt.

The CHAIRMAN: And you think, apart from the interest of proprietors, it is desirable in a national point of view to find that mode of relaxation for those who are hard-worked during the Parliamentary session?

The Earl of AIRLIE: I think so. There is no relaxation in the world like a day's deer-stalking or fishing.

The CHAIRMAN: Another proposition is to take hares and rabbits out of the game list. What is your view of the result of having no protection by law for hares and rabbits?

The Earl of AIRLIE: As regards hares, if you took them out of the game list I think in a short space of time they would be exterminated; that is, always supposing you would not have a more stringent trespass law. A more stringent trespass law would be very objectionable, and inflict a hardship on the general subject. I think it would be a great pity to confine the public to the roads. I like myself, as far as possible, consistently with the rights of property, to allow the public to go and see the scenery. If the law of trespass were made more stringent, it would prevent tourists from seeing much of the scenery in the Highlands of Scotland and elsewhere, and that would be a great hardship. I do not think public opinion would stand that, and I must say I should sympathise with them very much. There are very great differences of opinion about giving occupiers an inalienable right to kill hares and rabbits concurrently with their proprietors. In cases where the tenant was not leased, why, of course, the landlord could say to that man: "If I do not find hares upon your farm I shall find somebody who will keep hares;" but even in the case of leases, if the tenant has something which the landlord wishes to buy, and the tenant wishes to sell it, they can always make an arrangement by which the bargain can be carried out. A landlord might say to the tenant, "I am very fond of shooting, and if I get so many hares at the end of the year I will give you a reduction in your rent." I do not see how any legislation could stop that. Another thing to be considered is, that the owners of estates would be apt to take considerable tracts into their own hands if they desired to have hares, and I do not know that that would be considered by tenant-farmers as a step in their own interest. If you limit the quantity of land coming into the market, *pro tanto* you raise the price. With regard to modifications that might be made in the law, I would observe that by the law of Scotland the tenant can recover damages from his landlord if he can show that the ground game has increased since his farm was let to such an extent as to do him injury, but in the existing state of the law this in the case of

a tenant really amounted to a denial of justice, for he could not afford to go before the Sheriff, then to Quarter Sessions, and with the risk of the case being carried to a higher court, and probably the House of Lords. I think he should have in such a case a summary remedy. No doubt there is a good deal of damage done by game coming out of adjoining plantations, and I think you might give damages where an adjoining proprietor insisted upon keeping rabbits, and did not fence his ground in such a way as to prevent the rabbits coming out. The preservation of hares and rabbits, which in many cases was so justly complained of, was the act of a very small minority of landlords. Beyond what I have suggested, I do not see what further can be done in regard to modifying the Game-laws.

By Mr. CAMERON—A good deal of the venison that comes from my forest we eat ourselves, some I send away as presents, and I give a good deal to the people about me. That is very much the practice of other proprietors of deer forests. If you bring the land under deer forests into the market for sheep, the rents of other sheep farms would fall as a natural result. The ground would not bring so much in the shape of rent, so that the valuation roll of the Highland counties would be considerably diminished, and the rates would be proportionately increased. The question of the Game-laws hardly touches the question of deer forests, because up to a late period deer were not game at all. If you were to abolish the Game-laws to-morrow, I doubt very much whether it would have any effect upon deer forests, because you cannot trap a deer as you can a hare or rabbit. I think if deer forests were done away with, it is very possible that in fifty years' time many of the people would have to leave the glens.

By Lord ELCHO.—I do not think that taking hares and rabbits out of the game list would seriously affect the value of the shooting.

By Mr. HARDCASTLE.—The forest that would keep 100 deer would keep 600 sheep.

By Mr. M'COMBIE.—Taking the county of Forfar all over, I do not think the tenants, on the whole, have much ground to complain either of hares or rabbits, and certainly not of pheasants, because the great majority of proprietors do not rear them.

At the conclusion of the Earl of Airlie's examination, the Committee adjourned till Tuesday.

On Tuesday, July 16, Mr. Ward Hunt in the chair,

Mr. ALEXANDER TAYLOR, of Cushine, Kincardineshire, gave evidence with reference to the damage done in Scotland to all growing crops by game. He stated that he was president of a meeting of the Farmers' Association, at which it was resolved that the Game-laws, as they exist, were iniquitous in principle and tyrannical in administration; that they led to an increase of local taxation, impoverishment of the tenant-farmers, demoralisation of the people and debasement of the aristocracy, landowners, and game tenants. He was of opinion that the Bill of the Lord-Advocate would not mitigate any of the existing evils, and that the tenant-farmers ought to have an inalienable right of defending their crops from destruction by wild animals. The Game-laws were a fertile source of crime, pauperism, and increase of local taxation, for by a Parliamentary return it appeared that there were 10,395 convictions under these laws in England and Wales alone, and this must have been the means of reducing at least 20,000 individuals to pauperism. Witness was strongly opposed to the assimilation of the Game-laws of Scotland with those of England. The tenant-farmers generally supported the principle of Mr. Loch's Bill. He thought the total abolition of the Game-laws as proposed by Mr. Taylor, Mr. Jacob Bright, and Mr. M'Combie, would fail to give relief from the evils complained of, unless a provision was introduced rendering it illegal for parties to enter into covenants for the reservation of game. The Bills of Mr. Hardcastle and Sir Wilfred Lawson were both tyrannical and Jesuitical. By making foxes game a Highland farmer, defending his flock, would be branded as a felon. In one clause it was declared that no one should be prosecuted for killing game, but another made game private property, and all who meddled with it thieves and felons. Any child in the kingdom who put its hand into a bird's nest, or any schoolboy who caught a rabbit would be liable to six months' imprisonment.

The committee again adjourned.

ROYAL AGRICULTURAL SOCIETY OF ENGLAND.

MEETING AT CARDIFF.

THE IMPLEMENTS.—THE OPENING DAY.

Unlike the opening morning of the stock show, when such great results are arrived at, business amongst the implements set down for trial is often little more than preliminary, and so far we have of course but little to report. However, the following is a

COMPLETE LIST OF IMPLEMENT EXHIBITORS AT CARDIFF—W. Affleck, Agricultural and Horticultural Co-operative Association; T. Allcock; Alway and Son; J. Anstee; Arnold and Sons; Ashby, Jeffery, and Luke; Atmospheric Churn Company; Aveling and Porter; B. T. Ayshford; John L. Baker and Co. (Kimbolton); J. Baker (Wisbeach); T. Baker; G. Ball; Wm. Ball, and Son; A. C. Bamlett; Bamford and Sons; Barford and Perkins; D. W. Barker; Barnard, Bishop, and Barnards; Barrows and Stewart; Isaac Gray Bass; Bayliss, Jones, and Bayliss; J. Beach and Co.; Belcher, Gee, and Co.; J. M. Bell and Co.; Edward Hammond Bentall; Beverley Iron and Waggon Company; Robert Boby; William S. Boulton and Co.; T. Bradford and Co.; James Braggins; Brigham and Co.; Bristol Waggon Works Company; Benjamin Brown and Co.; Brown and May; Burgess and Key; Burney and Co.; Charles Burrell; Cambridge and Parham; Carson and Odling; Clayton and Shuttleworth; Coleman and Morton; J. Collings; Colthurst, Symons, and Co.; J. Cooch; T. Corbett; Corbett and Chipchase; S. Corbett and Son; Coreoran, Witt, and Co.; J. Cornes and Co.; Cottam and Co.; J. Coultas; Cranston and Luck; Cross, Brothers; Crosskill and Sons; W. Cullingford; Edward Daniel; W. David; Davis and Co.; Devey, Paxman, and Co.; Day and Sons; Day, Son, and Hewitt; De Leon and Andre; Denley and Co.; Denning and Toone; Carter, Dunnett, and Beale; Clarke, Brothers, and Co.; Dennis and Co.; H. Deuton; Dickson and Sons; Driffield and East Riding Linseed Cake Company; Dunstone Engine Works Company; M. Edwards and Sons; Evans and Sons; Farmers' Supply Association; T. R. H. Fiske; J. Fowler and Co.; J. Fuller and Co.; S. and A. Fuller; W. Gardner; Garrett and Sons; P. and H. P. Gibbons; T. Gibbs and Co.; J. Gilbert; G. O. Gooday; W. and H. M. Goulding; J. Goss; Gower and Son; J. Grant; Green and Stainsby; J. Greenslade; Grover and Baker Sewing Machine Company; J. Hall and Co.; R. Hall; Hammond and Hussey; F. and C. Hancock; Hare and Co.; B. Harlow; Hart & Co.; Houghton & Thompson; G. Hathaway; E. Hayes; Hayes & Son; Haynes & Son; Hayward, Tyler, and Co.; E. Heady and Son; Head, Wrightson & Co.; J. and T. Hepburn; E. Herne; Hill and Smith; G. Hilton and Co.; E. S. Hindley; B. Hodggets and Son; Holmes and Sons; W. A. Hope; R. Hornsby and Sons; J. and F. Howard; T. L. Howe; Howes and Sons; E. Humphries; Hunt and Tawell; T. Hunter; Huxhams and Brown; H. Iman; T. W. Inwood; Isca Foundry Co.; James and Son; Jones and Rowe; J. M. Jones; H. and G. Kearsley; R. Keevill; S. A. and H. Kell; E. Kerr; Keyworth and Co.; J. L. Larkworthy and Co.; Lawrence and Co.; J. Le Butt; S. Lewin; Lewis and Co.; Llewellyn and Son; A. Lyon; M'Neill and Co.; M'Naught and Smith; H. J. Major; T. Marley; H. R. Marsden & Co.; Marshall, Sons, & Co.; J. Matthews; Matthews, Son, & Co.; W. Mattison; R. Maynard; Mellard's Trent Foundry (Limited); F. P. Milford; G. Milford; T. Milford and Sons; Mitchell and Co.; R. Morton; Moale's Patent Earth Closet Company (Limited); Musgrave Brothers; Nalder & Nalder; B. Newham & Son; J. Nicholas; W. N. Nicholson & Son; J. L. Norton; Oldham & Booth; Page & Girling; E. Page & Co.; J. Parker; Parnall & Sons; Patent Brick Works, Worcester; Patent Imperishable Hothouse Co.; Patent Tile Works, Bridgwater; Peacock & Wilson; C. Pearce; T. & W. Pearson; Penney & Co.; Perkins & Co.; C. D. Phillips; J. Pickering; Picketsley, Sims, & Co.; J. D.

Pinfold; C. Powis & Co.; J. G. Proger; Priest, Woolnough, and Michell; H. and T. Proctor; Wm. Rainforth and Son; S. and E. Ransome & Co.; Ransomes, Sims, and Head; Ravens, Thorpe Engineering Co.; Reading Iron Works (Limited); E. Rees; R. J. Reeves and Son; B. Reid and Co.; Rendle and Burrows; W. E. Rendle; Reynolds and Co.; Riband Telegraph Post Co.; Riches and Watts; Richmond and Chandler; J. Roberts and Sons; Robey and Co.; Robinson & Richardson; W. Robinson; Wm. Rogers and Co.; J. G. Rollins; J. Rouse; Russ, Morris, and Co.; Ruston, Proctor, and Co.; Sanitary and Economic Manure Co. (Limited); J. B. and J. Sainly; Samuelson and Co.; W. Sawney; G. L. Scott; Sessions and Sons; W. Sharman; R. C. Silvester; Simpson and Co.; J. Sinclair; Singer Manufacturing Company; Slack and Brownlow; Slocombe and Co.; W. Smith; Smith and Grace; Smyth and Sons; South Wales Indiarubber Co.; Southwell and Co.; Spong and Co.; J. H. Stiles; St. Pancras Iron Works Company; J. S. Stone; Sutton and Sons; Tasker and Sons; Taylor's Patent Sewing Machine Company; Thomas and Taylor; T. Thomas; A. Thompson and Son; C. Thorn; W. Tilley; R. Tinkler; B. C. Tipper; A. Todd; E. R. & F. Turner; Tuxford & Sons; J. Unite; E. & H. Vezey; Wade & Cherry; W. Waide; Wallis & Stevens; W. Walker & Son; J. T. Ward; A. Watson; J. Watts & Co.; J. Weetman; J. Weighell; J. G. Weir; Wheeler & Son; White & Co.; J. Whitehead; Whiting and Cowan; M. J. Wilders; R. Willacy; J. Williams; James Williams and Co.; Williamson Brothers; J. C. Willsher; C. S. Windover; Wilson (Newton) and Co.; W. A. Wood; Woods, Cockledge, and Warner; W. T. Wright; H. Yorath; Yorkshire Shoddy (Wool Waste) Manure Company.

Again, the competition amongst the machinery which this year in turn comes on for trial will be mainly supplied from the following firms:

Entries of portable steam-engines are made by Bass, Thomas, Affleck, Southwell and Co., Reading Iron Works, Garrett and Sons, Nicholson, Cambridge and Parham, Barford and Perkins; Ashby, Jeffery, and Luke; Richmond and Chandler, Riches and Watts, Holmes and Sons, Turners, Hornsby and Sons; Ransomes, Sims, and Head; Scott; Russ, Morris, and Co.; Pinfold, Oldham and Booth, Maynard, Robey and Co., Hayes, Humphries, Brown and May, Tuxford and Sons, Willsher, Corbett and Son, Clayton and Shuttleworth; Davey, Paxman, and Co.; Burrell, Marsden and Co., Wallis and Stevens, Nalder and Nalder, Gibbons, Tasker and Sons; Marshall, Sons, and Co.; Ruston, Proctor, and Co.; Hindley, Lewin, and Gilbert.

Entries of straw-elevators are made by Reeves and Son, Yorath, Cambridge and Parham, Barford and Perkins; Ashby, Jeffery, and Luke; Holmes and Sons; Ransomes, Sims, and Head; Russ, Morris, and Co.; Robey and Co., Watson, Clayton and Shuttleworth, Wallis and Stevens, Nalder and Nalder, Tasker and Sons; Ruston, Proctor, and Co.; Marshall, Sons, and Co.; Wright.

Entries of steam thrashing-engines are made by Barrows and Stewart, Garrett and Sons; Ransomes, Sims, and Head; Gibbons.

Entries of combined machines are made by Barrows and Stewart, Cambridge and Parham, Weighell; Ashby, Jeffery, and Luke; Riches and Watts, Holmes and Sons, Turners, Hornsby and Sons; Ransomes, Sims, and Head; Robey and Co., Wilders, Humphries, Tuxford and Sons, Willsher, Clayton and Shuttleworth, Wallis and Stevens, Nalder and Nalder, Tasker and Sons; Ruston, Proctor, and Co.; Marshall, Sons, and Co.; Gilbert.

It is five years since there has been any official trial under the direction of the Royal Agricultural Society of

those machines which this year occupy the chief position on the implement prize sheet—that is Portable Steam Engines, Thrashing Machines, and Dressing Machines. At Bury St. Edmunds the judges of steam engines, Messrs. J. V. Gooch, F. J. Bramwell, and J. Easton, thus reported on their awards:

SINGLE-CYLINDER PORTABLE ENGINES.—In this class we awarded the first prize to Messrs. Clayton, Shuttleworth, and Co., who produced a thoroughly well designed and well made engine, which did its work with an extremely small consumption of fuel. The second prize we awarded to Messrs. Tuxford and Sons, whose engine was also extremely well made and designed, and who gave proof of an economy but little below that of Messrs. Clayton, Shuttleworth, and Co. The Reading Iron Works Company's engine we highly commended. It was extremely well designed and well made. This engine was fitted with a means of varying the expansion, similar to that employed in the fixed engine by the same makers. We also highly commended the engine of Messrs. Brown and May, because it gave, without any separate expansion valve, a very good economic result. It was a very plain, serviceable engine.

THE DOUBLE-CYLINDER PORTABLE ENGINE.—Four only were tried twice. The first prize was given to Messrs. Clayton, Shuttleworth, and Co., whose engine, well designed and well made, worked with great economy. The second prize was given to Messrs. Ransomes and Sims, whose engine was of extremely good workmanship, and gave a performance in respect of coal differing but by a small fraction of a pound from that given by Messrs. Clayton, Shuttleworth, and Co. The engine of Messrs. Tuxford and Sons well deserved the high commendation we gave it, although we could not lose sight of the fact that its price was higher than that of its competitors. The engine of Messrs. Brown and May we highly commended, because, as in the case of their single engine, it was of a plain, serviceable class, and yet gave a very good result.

The judges of thrashing machines at Bury St. Edmunds, Messrs. J. Brasneth, H. B. Caldwell, J. Coleman, and T. Scott, recommended that the premiums for horse-power machines "be discontinued, and the money offered for a cheap and simple straw-elevator, or any other labour-saving application, in the thrashing section. Horse-power machines, though still in use in some districts, are generally so indicative of a backward condition of agriculture, the process is altogether so clumsy, and the power consumed so great for the work performed, that we think it is a positive mistake to encourage by prizes machines that ought to be bye-gones in English agriculture." And this recommendation has been altogether adopted in the Cardiff programme. From the five horse-power machines competing, the awards went first to Wallis, Haslam, and Stevens, and the second to Tasker and Sons; while the premiums in the other classes were thus distributed: Ransomes and Sims—First prize, £20, for their single blast portable steam-thrashing machine, with 60 in. drum; Edward Humphries, Pershore, Worcestershire—Second prize, £12, for his combined portable, thrashing, shaking, riddling, winnowing, and sacking machine; Nalder and Nalder (Limited), Challow Iron Works, Wantage, Berks—Third prize, £8, for their portable compensation thrashing and dressing machine. With finishing machines the result arrived was: Holmes and Sons, Prospect Place Works, Norwich—First prize, £20, for their patent combined portable thrashing machine, to finish the corn for market; Clayton and Shuttleworth—Second prize, £15, for their combined portable double-blast finishing thrashing machine; Marshall, Sons, and Co. (Limited), Britannia Iron Works, Gainsborough, Lincoln-

shire—Third prize, £5, for their thrashing and finishing dressing machine. The judges of thrashing machines stated that the entries were generally very good, expressing a strong opinion in favour of the simpler form, and that the finishing machinery in many cases fulfilled its purpose well.

The weather in the opening week somewhat interfered with the proceedings, and Saturday was a thoroughly miserable day, so that the judges' duties were discharged under difficulties.

Class 1 on the Society's prize sheet embraced portable engines not exceeding 8 horse-power. The first day, Monday, was occupied mainly with preparations, and these were of a most elaborate character. The preparation of the brakes or power-measures was much after the manner of former days. These we could comprehend, but of the complicated mechanism for indicating the varying pressures of expanding steam, and the pyrometric telegraph for measuring the temperature of the gases as these escaped into the chimney, we will not attempt an explanation. For practical purposes the information sought for by purchasers of agricultural engines we conceive to be embraced in the homely country inquiry of "What is the amount of work you can do with a hundred-weight of coal?" This inquiry the Society's brakes will answer. Each engine when it goes under test is filled up to its proper level with water, the steam is got up, and when ready for starting, for every horse-power that the engine is intended to run at, 14lbs. of coals is supplied. The engine is then connected with the Society's power-measurer, or dynamometer, and has to drive a pulley, the circumference of which has to overcome an effective frictional resistance produced by actual weight, equaling thirty-three thousand pounds, lifted one foot high per minute for each horse-power. The trials as they proceeded became very exciting, Brown and May's engine riding over Marshall and Son's one minute and forty seconds; the Reading Ironworks exceeded Clayton and Shuttleworth one-third of a minute. The Reading Works remained satisfied with the result of their engine, but Clayton and Shuttleworth claimed and had allowed to them a second run, these two up to this report being written being leading engines. Messrs. Turners (Ipswich) had an excellent engine with some recently patented improvements, but unfortunately a key to a balance pulley became loose, which stopped them in their run. Messrs. Tuxford and Sons, in removing from one end of the crank-shaft the connecting coupling to the other end of the shaft for the purpose of refixing it to suit the Society's dynamometer, had the misfortune of drifting the wedging-key of the fly-wheel, so as to crack the boss or eye of the wheel, which crack did not show itself until the trial had been on for a period between one and two hours, when they stopped their engine rather than risk an accident amongst the surrounding visitors. The judges permitted these competitors to get the boss of the wheel hooped with wrought-iron, so that the engine might again go on trial, but in the desire to be perfectly safe the Messrs. Tuxford obtained and fixed on a new fly-wheel altogether. This, however, was considered a disqualification; and although the Tuxfords proffered, if they were allowed to run their trial out under the apparatus and inspection of the Society's judges and consulting engineer, to forego all chance of claim for the prize, it was deemed politic not to allow of such a trial.

However exciting to those chiefly concerned, the trials of this year have by no means that interest with the general body of agriculturists as when they can watch the work of the plough, or follow the mowers and reapers

as they cut a way through. Farmers on such occasions can judge very much for themselves; but over the intricate mechanism of an engine, the coal consumed, and the time taken, they are very much at the mercy of the professional engineer, who is, in fact, the chief authority at Cardiff. We question very much, indeed, whether anyone but a brother C.E. is altogether qualified to follow the elaborate tests and comparisons here instituted, and, however much may be said for or against "racing," the time is, so far, until the elaborate reports of the judges themselves are published, the chief thing the public have to go by. Thus, according to our more scientific contemporaries, on Tuesday Messrs. Marshall got up steam in their portable engine, and started for their preliminary run at 9.29 a.m. They stopped at 9.44, sending back a good deal of coal. At 10 hours 3 minutes 40 seconds they started for their trial run, and stopped at 2 hours 12 minutes 35 seconds. The running time was thus 4 hours 8 minutes 55 seconds. The mechanical time was 4 hours 14.8 seconds, corresponding to 3.29 lb. of coal per horse per hour, an admirable duty in a non-condensing engine. Then, the first start of Messrs. Clayton and Shuttleworth's engine was a failure, from the connector attached to the brake getting out of gear, and this not being discovered until the engine had been running some minutes. There was then a fresh trial. The run began at 1 hour 30 minutes 30 seconds, and terminated at 6 hours 17 minutes 5 seconds. The total number of revolutions was 32,041, the real running time being 4 hours 46 minutes 35 seconds, and the mechanical time 4 hours 51.28 minutes. This disappointed some, who expected a run of five hours. Hayes' engine ran 1 hour 24 minutes against a brake load of 117 lb. 2 oz., corresponding to 8-horse power at 130 revolutions per minute. Davey, Paxman, and Davey's engine started at 12 hours 26 minutes, and stopped at 4 hours 44 minutes, making a capital run of 4 hours 18 minutes. Tasker made 2 hours 50 minutes mechanical time. Brown and May made 4 hours 16 minutes. Lewin, after running about three hours under his speed, stopped for a hot brass, and the experiment terminated. The Reading Ironworks got off with their engine at 13 minutes past 2. They ran 4 hours 51 minutes 6 seconds, thus beating Clayton and Shuttleworth by a small fraction of a minute. This, of course, is the sensation performance of the meeting, and the result being so close as judged by the time test, a second trial, as we have already stated, was granted by the judges. The Reading Company, however, was quite satisfied with doing so well, but Clayton and Shuttleworth ran a second heat on Friday.

Of the portable thrashing machines not finishing the corn for market, and to do half a ton of wheat in the sheaf, Holmes and Son stood first, and got through in 8 min. 45 sec.; Barrows and Stewart, Banbury, in 9 min. 2 sec.; Humphreys, Pershore, in 10 min. 20 sec.; Gibbons, Wantage, in 5 min. 55 sec.; Ransomes, Sims, and Head, working well in 6 min. 50 sec.; Ashby, Jeffery, and Luke, Stamford, broke down; the Reading Iron Works Company, in 7 min. 50 sec.; Marshall and Co., Gainsborough, cleanly in 9 minutes; Nalder and Nalder, in 10 min. 23 sec.; Gilbert, in 7 min. 25 sec. Tasker and Son clean in 7 min. 15 sec.; Clayton and Shuttleworth excellent work in 8 min. 58 sec.; Ransomes, Sims, and Head, with a powerful machine, "not furnished with a screen for sorting the grain, but intended for thrashing large quantities of grain in a very short time," 4 min. 32 sec. Ruston and Proctor clean in 8 min. 3 sec.

With the thrashing and finishing machines the final trial promises to be between Ransomes, Sims, and Head, 14 min. 45 sec., and Clayton and Shuttleworth, 17 min. 45 sec. The Messrs. Hornsby do not compete in either

the engine or the thrashing-machine trials, as they have made no alteration in their engines and machines since they last competed at the Royal Meetings.

The *Engineer* says "a rumour was current that a trial of one of Messrs. Ransomes' machines was to take place before the regular competition came on, with a view to finding out the proportion of grain to straw in the wheat supplied; but this plan, if it ever existed in the minds of the judges, was given up. Certain regulations were posted up in the thrashing sheds to the effect that the number of the exhibitors' men allowed to attend to each machine under trial was not limited, but that the number of men actually employed would be considered in the points of merit; that ten sheaves of corn would be allowed to each machine for adjustment, but that it would be considered a point of merit if the machine were set right before trial. Exhibitors were also informed that a certain fraction of a ton of sheaf-corn would be served out to each competing machine, but the exact fraction of a ton—one half—was not determined until very late in the day. Exhibitors did not appear to be very well satisfied with this slender allowance, but the extraordinary number of machines under trial—nineteen finishing and nineteen non-finishing—appears to afford a reason for this infraction of the regular diet of a thrashing machine. In order to afford some test of the quality of the process pursued by each of the thrashing machines, the straw resulting from each trial was passed through a machine of Messrs. Ransomes, drawn up alongside of the competing machines, and driven by one of the engines manufactured for the show by the same firm. This engine stands in the same line as the dynamometer of the Society and the engine by which it was driven, the whole arrangement being very commodious and well contrived."

The preliminary trials of corn-dressing machines were completed on Wednesday evening, and on Thursday morning the second trial was commenced, and the following was the time recorded for each machine: Cooch, of Harleston, 1 min. 30 sec. Boby, Bury St. Edmunds, Suffolk, 4 min. Thos. Baker, of Compton, Newbury, 1 min. 21 sec. Holmes and Sons, Norwich, 1 min. 40 sec. Nicholson and Son, Newark, 1 min. 30 sec. Rainforth and Son, Lincoln, 1 min. 4 sec. John Baker, Wisbech, 1 min. 35 sec. Hornsby and Sons, Grantham, 1 min. 30 sec. Corbett and Chipchase, Shrewsbury, 1 min. 23 sec. Sawney, Beverley, 1 min.

At the trials of the hay or corn elevators Coleman and Morton, Chelmsford, were first subjected to the inspection of the judges. This elevator received a special high commendation at the Royal Society's show at Manchester. Next came an elevator the invention of Wright and Yorath, of St. Nicholas and Moulton, manufactured by the first-named at his Agricultural Implement Works, Cardiff.

Subjoined is a list of the exhibitors who entered for trial, in the order of trial arranged by ballot:

PORTABLE STEAM ENGINES.—Marshall, Sons, and Co.; Wallis and Stevens; Clayton and Shuttleworth; Hayes, Edward; Davey, Paxman, and Co.; Tuxford and Sons; Lewin, Stephen; Holmes and Sons; Willsher, J. C.; Brown and May; Tasker, W., and Sons; Reading Iron Works Co.; Turner, E. R. and F.; Hindley, E. S.; Barrows and Stuart; Ashby, Jeffery, and Luke.

COMBINED PORTABLE STEAM THRASHING AND FINISHING MACHINES.—Turner, E. R. and F.; Nalder and Nalder; Tasker, W. and Sons; Willsher, J. C.; Tuxford and Sons; Ashby, Jeffery, and Luke; Barrows and Stewart; Clayton and Shuttleworth; Ransomes, Sims, and Head; Humphries, Edward; Gilbert, Joseph; Humphries, Edward; Marshall, Sons, and Co.; Wallis and Stevens; Lewin, Stephen; Holmes and Sons; Ran-

somes, Sims, and Head; Riches and Watts; Ruston, Proctor, and Co.; Gibbons, P. and H. P.

COMBINED PORTABLE STEAM THRASHING MACHINES.

—Hindley, E. S.; Holmes and Sons, Barrows and Stewart; Humphries, Edward; Willsher, J. C.; Ransomes, Sims, and Head; Gibbons, P. and H. P.; Ashby, Jeffery, and Luke; Reading Iron Works Co.; Marshall, Sons, and Co.; Nalder and Nalder; Gilbert, Joseph; Turner, E. R. and F.; Tasker, W., and Sons; Clayton and Shuttleworth; Wallis and Steevens; Ransomes, Sims, and Head; Ruston, Proctor, and Co.

STEAM STRAW ELEVATORS.—Tasker, W., and Sons; Wallis and Steevens; Ashby, Jeffery, and Luke; Nalder and Nalder; Watson, Albert; Barford and Perkins; Marshall, Sons, and Co.; Russ, Morris, and Co.; Lewin, Stephen; Clayton and Shuttleworth; Tasker, W., and Sons; Barford and Perkins.

HORSE POWER STRAW ELEVATORS.—Wallis and Steevens; Barford and Perkins; Stephen Lewin; Holmes and Sons; Albert Watson; Coleman and Morton; Clayton and Shuttleworth; W. Tasker and Sons; W. T. Wright; Barford and Perkins; Henry Yorath; R. and J. Reeves and Son; Barford and Perkins.

SEED DRAWERS.—Robert Maynard; Holmes and Sons; Hunt and Tawell.

CORN DRESSING MACHINES.—Holmes and Sons; Robert Boby; W. N. Nicholson and Son; J. Cooch; J. B. and J. Sainty; Robert Boby; S. Corbett and Son; Corbett and Chipchase; Thomas Corbett; J. Cooch; Jeremiah Rouse; Reid, Ben, and Co.; Hunt and Tawell; Reid, Ben, and Co.; William Sawney; William Sawney; Hunt and Tawell; Thomas Corbett; W. N. Nicholson and Son; Thomas Corbett; W. Ball and Son; J. Cooch; Thomas Baker; W. N. Nicholson and Son; S. Corbett and Son; W. Rainforth and Son; Thomas Corbett; John Baker; Thomas Corbett; Corbett and Chipchase; John Baker; Thomas Baker.

CORN SCREENS.—Robert Boby; Josiah Le Butt; Josiah Le Butt; Penney and Co.; Hammond and Hussey; Coleman and Morton; W. Rainforth and Son; Thomas Corbett; Robert Boby; R. Hornsby and Sons; R. Hornsby and Sons; Robert Boby; Josiah Le Butt; Coleman and Morton; Josiah Le Butt; Josiah Le Butt; Robert Boby; Penney and Co.

Taking into consideration the extreme distance of the locality of the show this year from the centres of manufacture, the great activity of business just now, which renders it scarcely possible to execute orders, coupled with the recent advances in iron and coal, there has seldom been seen a better and more varied display of useful and well-made implements. The rivalry among the leading manufacturers is still strong, and if there were fewer novelties apparent, all seem to have concentrated their attention on producing strong, serviceable, and cheap machinery and implements adapted for general use.

There were occasional repetitions of implements and machines by local agents, some of whom had very large stands, where they exhibited machinery of the same kind as that shown on the inventors' own stands, but this was hardly to be avoided. In consequence of the unparalleled increase in the price of material, amounting on pig-iron to 85 per cent., wrought-iron 80 per cent., steel 25 per cent., and coke 100 to 150 per cent., added to the greater cost of labour, the makers generally have been obliged to advance the price of engines and machines rather than impair the quality of their manufactures by the use of inferior material or workmanship. Those who have not issued later price-lists fall back on the saving clause at the head of the implement catalogue, to the effect that, "The following prices of implements constructed of iron, steel, or other metals are subject to the fluctuations of the

market." Since the date of entry many changes have taken place which interfere much with the future operations of the manufacturers.

Analysing the entries of the class of engines and machines to be tried at the show this year we find that in portable steam-engines there were 84 shown by 31 exhibitors, several of the principal makers having eight or nine on the ground. This was exclusive of some of those used for driving machines and not entered for competition. In combined thrashing and finishing machines there were 43 entries by 21 makers. Of straw elevators there were 27 shown by 17 makers; of these 17 were adapted for steam-power, and 10 for horse power, whilst some few of those shown were adapted for both. Of seed drawers there were only four or five shown. Of corn-dressing machines there were 49 entered by 17 exhibitors. Of corn-screens there were upwards of 40 entered by 11 makers. Some few of those entered were not sent, the makers being too full of work and orders to attend to their despatch. In the competition trials of engines and machinery it will be noticed that the large and principal makers have carried off nearly all the prizes.

We have already brought down the report of the trials of steam engines so far as it was possible to give; we now present a *resumé* of the work of the thrashing machines, having regard to the practical business details which most interest the farmer, leaving the minute engineering data to the purely professional papers, which record with precise exactitude every mechanical particular and speciality.

The greater part of the work in the trial of implements having been disposed of on Friday night, consequently very little was done on Saturday. Four of the machines selected out of Class 2 were again subjected to a third trial. On previous occasions sheaf-corn was used, but on Saturday each of the machines was allowed 15 cwt. of barley in sheaf and half a ton of oats, with one cwt. allowed for adjustment. The time which the oats and barley occupied in passing through the machines, and the state in which it was dressed, were considered as points of merit. The following were submitted for trial: One of Marshall, Sons, and Co. (Limited), barley 11min. 46sec., oats 8min. 34sec.; one of Clayton and Shuttleworth, barley 14min. 49sec., oats 11min. 17sec.; one by Ransomes, Sims, and Head, barley 14min. 17sec., oats 10min. 57sec.; one by Ruston, Proctor, and Co., barley 13min. 12½sec., oats 13min. 17½sec.

The following shows the time of work in the first and second trials of the selected thrashing machines. Non-finishing machines, seven selected from the fifteen first tried: Nalder and Nalder, 1st run ½-ton 10min. 23sec., 2nd run 1 ton 13min. 40sec.; P. and H. P. Gibbons, 1st run ½-ton 5 min. 55 sec., 2nd run 1 ton 14min. 10sec.; Clayton and Shuttleworth, 1st run ½-ton 8min. 55sec., 2nd run 1 ton 16min. 55sec.; Holmes and Sons, 1st run ½-ton 8min. 45sec., 2nd run 1 ton 15min. 53sec.; Marshall, Sons, and Co., 1st run ½-ton 9min., 2nd run 1 ton 17min. 53sec.; Ransomes, Sims, and Head, 1st run ½-ton 6min. 50sec., 2nd run 1 ton 18min. 5sec.; Tasker and Sons, 1st run ½-ton 7min. 15sec., 2nd run 1 ton 13min. 32sec. Finishing machines, selected from the fourteen first tried: Clayton and Shuttleworth, 1st run 18min. 48sec., 2nd run 17min. 42sec.; Marshall, Sons, and Co., 1st run 16min. 17sec., 2nd run 17min. 49sec.; Ruston and Proctor, 1st run 16min. 55sec., 2nd run 17min. 14sec.; Ransomes, Sims, and Head, 1st run 14min. 54½sec., 2nd run 18min. 35sec.; E. Humphries, 1st run 17min. 20sec., 2nd run 18min. 42sec.; W. Tasker and Sons, 1st run 17min. 7½sec., 2nd run 17min. 31sec.; J. Gilbert, 1st run 18min., 2nd run 20min. 21sec.

In the trial of the seed-drawing machines, of which

there were but three, there was no very special feature to record. The contest lay between the machines of Holmes and Son and Hunt and Tawell. The former, with a less diameter of rigger, made 896 revolutions per minute to 635 of its opponent, the former separating 26½ lbs. of seed to 29 by that of Hunt of Tawell. Although the prize was given to Holmes and Sons, Hunt and Tawell was highly commended by the judges.

In the trials of corn-dressing machines worked by hand with 130lb. of grain, the time occupied and the revolutions of machine per minute were as follows: Holmes and Son, 2min. 17sec., 38.75; R. Bobey, 4min. 20sec., 35.98; J. Cooch, 1min. 33sec., 43.80; R. Bobey, 2min. 4sec., 35.98; S. Corbett and Son, 1min. 15sec., 35.98; Corbett and Chipchase, 1min. 25sec., 37.30; J. Cooch, 1min. 37sec., 43.80; J. Rouse, 1min. 29sec., 38.75; B. Reid and Company, 4min. 53sec., 38.75; W. Sawney, 44sec., 49.15; W. Nicholson and Son, 2min. 13sec., 43.80; T. Corbett, 2min., 35.98; S. Corbett and Son, 2min. 16sec., 37.30; W. Rainforth and Son, 1min. 39sec., 43.80; T. Corbett, 1min. 19sec., 35.98; John Baker, 1min. 18sec., 37.30; John Baker, 36sec., 37.30; T. Baker, 2min. 50sec., 41.97; R. Hornsby, 1min. 45sec., 39.5; T. Corbett, 1min. 6sec., 35.98; T. Baker, 1min. 39sec., 43.80; B. Reid, 26sec., 36.75. The result being the first prize to Cooch, the second to Thomas Baker, and the third to Nicholson and Son.

The performance in the trial of corn-screens working upon the same amount of grain, and the time and revolutions per minute are given below in the rotation of trials, the result being the first prize to Bobey, the second to Hornsby, the others being highly commended or commended for their work: R. Bobey, 1min. 45sec., 56; Penney and Co., 1min. 43sec., 76; Coleman and Morton, 1min. 15sec., 39; W. Rainforth and Son, 1min. 46sec., 55; T. Corbett, 1min. 18sec., 42; R. Bobey, 1min. 4sec., 40; R. Hornsby, 1min. 30sec., 49; R. Bobey, 1min. 41sec., 85; Penney and Co., 1min. 39sec., 53.

For deserving miscellaneous articles in the show, the judges awarded six out of the ten silver medals placed at their disposal.

As a whole the general implement show this year must be considered as a success, for the Society, exhibitors, and the public. The general arrangements were excellent, the weather fine, and a large amount of sales effected, many of the exhibitors having disposed of their entire stock and booked as many orders as they cared to execute with the present press of business on their hands and the uncertainty of future prices of labour and materials. The many vacant stands and unfilled entries evidenced something of this feeling. Although the business orders taken were for the most part from distant visitors to the show, yet the Marquis of Bute and many local Welsh agriculturists bought freely. Notwithstanding the care exercised by the Society in endeavouring to restrict the miscellaneous articles to those properly pertaining to, or associated with, agriculture, a number of heterogeneous articles still creep in, such as altar screens and standards, reading desks, tombstones, china ware, tea and coffee pots, ships' cooking stoves. Some of the local exhibitors also occupied much space with articles scarcely within the range of agricultural implements, such as iron safes, birdcages, register grates and kitcheners, oak folding tables, wire work, &c. An incident of malicious damage from some rival occurred in the case of wilful injury done to the screening apparatus of a thrashing machine belonging to Messrs. Marshall and Sons. Handbills offering a reward for the discovery of the offender were posted in the yard, the Society offering £10 and Messrs. Marshall and Co. a further £20.

Let us now proceed to pass under review by a brief notice, so far as our space will enable us, the principal stands of exhibitors in their catalogue rotation.

George Ball, Rugby, had some waggons and general purpose carts, one of which obtained the first prize at the Warwick Show last year.

Milford and Sons, Culmpton, had on their stand four of their prize waggons and carts, one of which was sold to Lord Ashburton.

I. G. Bass, of Sheffield, had a vertical and a horizontal engine, and some saw benches, and a new implement, a rotary coal-cutting machine, invented by Gillott and Copsley, of Barnsley, made for the Wharfedale Silkstone Colliery.

John L. Baker and Co., Kimbolton, had some of their new improved double-furrow ploughs, and a set of improved whiptrees.

G. O. Gooday, of Stanstead, showed his patent thatch-sewing machine, which has been simplified and cheapened in price.

R. and J. Reeves and Son, Westbury, had on their stand some liquid manure and seed-drills of various sizes, water-carts, a new straw-stacking machine and elevator, with a horse-gear for working it, which was highly commended by the judges, and a patent corn-sower attached to a general purposes plough.

W. S. Boulton and Co., of Norwich, had among other articles some good liquid-manure carts and water-barrows.

W. Crosskill and Sons, Beverley, had a large collection of their carts and waggons, luries, farm-railway trucks, clodcrushers, &c.

John Anstee, of Cardiff, also showed waggons, carts, and luries.

Thomas Baker, Newbury, had one or two corn-dressing machines, liquid manure and water-carts, and a new three-wheeler cattle-trough.

E. Rees, of Cardiff, had a useful agricultural waggon, which was marked sold.

Hayes and Son, of Stamford, exhibited several useful waggons and carts.

W. Ball and Son, of Kettering, besides a corn-dressing machine, entered for trial, had many carts and waggons, and some of their improved double and single ploughs and subsoilers. By detaching the subsoiler it makes an ordinary plough. Their combined ridge-plough, potato raiser, and horse hoe, received prizes at the New Zealand Exhibition, and at the Warwickshire Agricultural Society in 1871.

The Beverley Iron and Waggon Company (Limited) made a large and fine display with clodcrushers, reapers, farm-railway trucks, carts, waggons, luries, and liquid-manure carts.

George Milford, Culmpton, had only an improved plank-side cart and a waggon for general purposes.

The Bristol Waggon Works Company (Limited) had on their stand a varied collection of waggons and carts, corn drills, winnowing machines, and American iron-pointed horse rakes.

Roberts and Sons, of Bridgwater, E. and H. Vezey, of Bath, and C. Pearce, of Aylesbury, had large and handsome collections of carriages, landaus, dog-carts, &c., and evidently were very successful from the sales effected.

Thomas and Taylor, Salford, besides a fine collection of their hexagon excentric churns, had several washing, wringing, and mangling machines.

The next eleven stands were devoted to carriages, of which there was almost a surplus show in the yard. These embraced the following makers: John Fuller and Co., Bristol; Edwards and Sons, Cardiff; Howes and Sons, Norwich; M'Naught and Smith, Worcester; S. and A. Fuller, Bath; C. S. Windover, London; B. Newnham and Son, Bath; J. T. Ward, Swansea; T. B.

Ayshford, London; T. W. Inwood, St. Alban's; and Charles Thorn, Norwich.

Musgrave, Brothers, Belfast, had a good display of their cowhouse and manger fittings.

Robert Willacy, Preston, brings forward again his apparatus for preparing and supplying cattle with food, and a plan of double shedding as adapted for the cattle-feeder in regard to economy.

The St. Pancras Iron Works Company, London, exhibited, as usual, all their special improvements for loose boxes, stalls, mangers, and fittings, in upwards of a hundred useful articles.

Burgess and Key, London, exhibited five or six of their far-famed reapers and mowers fitted in various ways.

B. Reid and Co., Aberdeen, had several lever corn and seed drills, and improved corn-dressing machines, a patent horse-rake with a novel lifting arrangement, a simple new improved seven-foot patent manure distributor, a set of portable drain-clearing rods, and some broadcast sowing machines. For this patent disc broadcast sowing machine the judges awarded them a silver medal.

Walter A. Wood, of London, had on his stand eight of his popular mowers and reapers, in some of which improvements had been made, as they were entered as new implements.

F. P. Milford, of Exeter, showed six out of eight carts and waggons he had entered; they were mostly strong vehicles for general purposes.

Aveling and Porter, of Rochester, exhibited three of their agricultural locomotives, of 6, 8, and 10-horse power respectively, together with a 10-ton steam road roller, or engine, which is getting into general use.

Thomas Corbett, of Shrewsbury, had a good collection of single and double ploughs, rollers, clodcrushers, winnowing and corn-dressing machines, an improved Excelsior corn screen, which was commended by the judges, and their Eclipse combined winnowing and dressing machine, which has carried off a great number of prizes the last five years. The combination winnower, corn elevator, and sack-lifter attracted much attention.

Coleman and Morton, of Chelmsford, had a Walker's patent horse pitchfork or elevator, for lifting hay or grass off carts and depositing it on stacks or in barns. Their patent adjustable rotary corn screen and seed separator was commended on trial by the judges. They also had an Anglo-American potato digger, on a new principle, constructed with revolving riddle, the fingers of which deliver the potatoes on either side, the man guiding the implement. Their prize cultivator, and water and manure carts (of which they had several kinds on their stand, are well known.

Carson and Toone, of Warminster, made a fine display of their chaff-cutting engines, with deep-fluted feed-rollers, which prevents choking, horse-hoes, turnip-cutters, cheese presses, automatic lamb creeps, and other implements for which the firm has a celebrity.

John Unite, of London, was especially prominent with his tents and rick-cloths, and did a large amount of business.

Barnard, Bishop, and Barnards, of Norwich, had an extensive display of wire netting, iron seats, and tables, horse-reels, sack-barrows, and such-like useful articles.

James Braggins, of Banbury, had a number of excellent oak entrance and field-gates, self-adjusting and self-closing, which, being all marked "sold," are evidently much appreciated.

Robinson and Richardson, of Kendal, had some different sizes of their hand churns, with improved dashers.

Samuelson and Co., of Banbury confined themselves chiefly to their reaping and grass-mowing machines, with side delivery in sheaf, or manual back delivery.

John Williams, of Rhuddlan, a local manufacturer, had a collection of chaff-cutters, root-pulpers and cutters, and some reaping and mowing machines of his own make, with a new carrier for them, intended for placing the weight of the pole on the horses' backs, thus removing it from the neck.

Hill and Smith, of Brierley Hill, showed improved rick stands, wrought-iron gates, hurdles, and fencing, horse hoes, and cultivators.

Bayliss, Jones, and Bayliss, of Wolverhampton, exhibited a similar class of articles.

Joseph Evans and Sons, of Wolverhampton, had a large collection of irrigating, force, and lift pumps.

John Whitehead, of Preston, showed a brick pressing machine for making patent and fire bricks, and a couple of drain-pipe, tile, and brickmaking machines for hand power.

Henry Denton, of Wolverhampton, exhibited one of Bell's reaping machines improved, a turnip hoe and scuffle, horse gear, and several chain harrows.

S. A. and H. Kell, of Gloucester, had one or two of their corn-dressing machines, a manure distributor, and several corn drills of various sizes.

J. S. Stone, of Newport, had a large display of useful agricultural carts of his own manufacture, besides a great collection of the implements of various manufacturers.

Burney and Co., of London, had a good collection of wrought-iron cisterns and cattle troughs, corn bins, and drinking pans.

Lawrence and Co., of London, introduced to notice some of their useful capillary refrigerators for cooling milk, worts, &c., for which the judges awarded them a silver medal, and some self-acting mashing machines.

William Gardner, of Gloucester, showed runner millstones and all appliances for them.

William Cullingford, of Stratford, had a collection of cocoa-nut fibre and hemp netting for sheepfolding, rabbit, and garden nets.

Henry Bamford and Sons, of Uttoxeter, had several new cheese presses, with some farm pumps, and a new curd mill.

T. Fiskin, of Leeds, exhibited a working model of his system of steam cultivation, and a light set of steam ploughing tackle.

Le Butt, of Bury St. Edmunds, showed several sizes of his self-cleaning corn-screens, a double action hay-making machine, and an improved pheasant and poultry garden attracted some attention.

A. W. Gower and Son, of Market Drayton, confined their attention to a varied collection of corn drills and seed machines.

Smith and Grace, of Thrapston, had a number of various-sized grist mills, chaff cutters, and root pulpers.

David Hart and Co., of London, showed some good samples of their excellent portable weighing machines, without loose weights.

E. Page and Co., of Bedford, had several of their double and single furrow ploughs, harrows, horse rakes, and chaff cutters.

Penney and Co. (Limited), Lincoln, besides their various screens and dressing machines, showed sack lifters and trucks.

J. B. and J. Sainty, of Wisbeach, had some useful field-gates, iron hurdles, and cattle fencing.

Huxhams and Brown, of Exeter, exhibited millstones and miller's appliances.

Thomas Hunter, of Maybole, showed some varieties of Dickson's double drill turnip cleaner, adapted for light or heavy land.

I. James and Son, of Cheltenham, besides their bone-crushers, liquid manure distributors, a sewerage or tank cart, which cannot clog up.

John Watts and Co., of Bristol, showed one of Bateson's fumigators, for destroying vermin and also adapted for disinfecting and other purposes.

Mellards' Trent Foundry (Limited), of Rugeley, besides samples of Godfrey's revolving mould-board plough, had a potato-raising plough, the revolving boards being substituted for the long breasts. A number of chaff-cutters, cheese pulpers, horse-hoes, grubbers and miscellaneous articles completed their display.

Timothy Thomas, of Cardigan, besides their implements in the machinery in motion section, had sets of horse gear, chaff-cutters, land-rollers, and cheese-pulpers of his make.

W. Affleck, of Swindon, had several water-carts adapted for general purposes, portable pumps, a double-action haystacker, and various sized pig troughs.

F. and C. Hancock, of Dudley, showed several useful machines for washing butter, and for cooling and making it firm in hot weather.

Wm. Waide, of Leeds, had many sizes of revolving barrel churns.

Southwell and Co., Rugeley, had on their stand a number of their celebrated chaff-cutters, cake mills, and pulpers, horse gear, horse hoes, ploughs, and cultivators. Their disc root pulpers are fitted with some improvements.

C. D. Phillips, of Newport, as a local agent, showed repetitions of many implements exhibited by the makers themselves, his entrees numbering over 123 articles.

Woods, Cocksedg, and Warner, Stowmarket, exhibited sets of their prize horse gears, crushing and grinding mills, root pulpers, and Gardner's turnip cutters, some strong, general purpose carts, and other articles.

J. and F. Howard, of Bradford, made a large and effective display of their various ploughs, hay cutters, and reapers, harrows, and steam cultivating apparatus. Their steam ploughing apparatus was worked daily during the show, on the Craws Farm, the single engine set from 10 till 1, and the double engine set from 2 to 5. Among their new implements were a patent steam cultivator, with self-lifting arrangement for relieving the tines from the soil while turning at land's end, and an improved double plough, made entirely of wrought iron and steel, which, although light, is strong.

The Reading Iron Works (Limited), besides their engines, and thrashing machines (noticed under Machinery in Motion exhibited some of Dutton's mowers and reapers, a pony-power thrashing machine, with open safety gear, and some lock-lever horse-rakes.

R. Tinkler, of Penrith, had a number of his patent churns, of various sizes, with Napier dashers and improved hungs and fasteners.

John Greenslade, of Maldon, had two patent self-acting anchors for the roundabout system of steam cultivation, described as new improvements.

Green and Stainsby, of Dewsbury, exhibited an improved combined mower and reaper on very large wheels (4 ft. 4 in.).

James Coultas, of Grantham, showed a new implement constructed for planting two rows of potatoes. It opens the ridges and drops the potatoes at equal distances, distributes any required quantity of artificial manure, and covers them up at one operation without damaging the sets; also a ten-row general purpose swing-lever horse hoe and some general purpose drills.

James Smyth and Sons, of Peasenhall, had specimens of their Eclipse and Suffolk corn drills, some of the earliest manufactured and best known.

Priest, Woolnough, and Michell, of Kingston-on-Thames, showed corn drills and lever horse hoes.

Jeremiah Rouse, of Wisbeach, had two improved corn-dressing machines.

A Canadian firm, Whiting and Cowan, of Oshawa, who

have a branch warehouse at Liverpool, had a fine collection of highly-finished cast-steel implements, hay and manure forks, hoes, rakes, scythes, and axes.

J. Cooch, of Harlestone, besides his greatly improved corn-dressing machine which has gained every first prize of the Society for which it has competed, including this show, had a corn-elevator and a set of small-seed apparatus applicable to the corn-dressing machines.

W. Alway and Son, of London, had a large collection of metal barrel-churns and milk-pails.

W. N. Nicholson and Son, of Newark, besides winnowers and corn-elevating apparatus entered for trial, had several varieties of their double-action haymaking machine and some patent horse-rakes and useful cake-breakers, chaff-cutters, and rollers. Their improved pulper with perforated disc is self-feeding and cuts the last piece; it has a very large hopper, and cuts the pulp admirably. Their improved hay rake has portable clips to the tines, which give rigidity to the teeth, and makes it useful in working on heavy sodden grass.

G. Hathaway, of Chippenham, had several of his barrel churns, of various sizes, mounted on strong stands, and revolving on antifriction rollers, some adapted for power.

Corcoran, Witt, and Co., of Mark-lane, had sets of mill-stones, wire, and samples of articles used in corn mills, which are their specialties.

John Weetman, of Ipswich, had several sizes and varieties of his self-acting counterbalance easy lifting horse rakes, a set of solid-beam harrows, and a cultivator, scarifier, and drag harrow combined.

Cambridge and Parham showed ten of their rollers and clodcrushers, and several chain and tine harrows, scuffle drags, horse gear and other implements.

Barford and Perkins, of Peterborough, had on their stand one of Campain's patent self-acting anchors for steam cultivation, as made by them, several metal corn grinding mills, oilcake breakers, and water ballast rollers.

Perkins and Co., of Hitchin, besides a few miscellaneous implements, had many bundles of their folding shafts for reaping and mowing machines.

John Weighell, of Pickering, exhibited five of his improved corn grinding mills, horse gear, &c.

Wm. Sawney, of Beverley, had on trial some of his winnowing and screening, and corn dressing machines, and also showed improved sack trucks or barrows.

E. H. Bental, of Maldon, exhibited a number of his patent chaff cutters, the cog wheels of which are all under cover, and with improved tooth rollers, suited for hand, horse, or steam power; a new combined turnip cutter and pulper, oilcake breakers and corn and seed crushers.

R. Boby, of Bury St. Edmund's, had a number of his corn screens—one of which, a self-cleaning, which turns out 90 bushels per hour, on trial carried off the first prize—also other screens, haymakers, and horse rakes.

S. and E. Ransome, of London, showed some of Weston's patent pulleys and blocks, and a new dynamic pulley tested to various weights.

Williamson Brothers, of Kendal, had on the ground some of their whirlpool centrifugal pumps and blowing fans.

J. and H. Keyworth and Co., of Liverpool, had a good collection of Whiting and Cowan's Canadian hay, manure, and other forks and hoes.

H. and G. Kearsley, of Ripon, showed three reaping and mowing machines.

Walker and Sons, of Bingham, had on their stand three corn drills and a lever horse-hoe.

Ashby, Jaffery and Smith, besides the implements in the department of machinery in motion, had several hay-makers, horse rakes and chaff cutters.

Richmond and Chandler, of Salford, showed several

corn crushers, root washers, and sets of horse gear. In chaff cutters they had a varied assortment, embodying many recent improvements. In a 13 inch cutter, which cuts two lengths of chaff, and which has a self-acting fixed web, the old form of lever and weight is abolished, thereby increasing the pressure on the feed as it becomes thicker. A simple steaming apparatus shown by this firm, consists of a boiler fitted with supply cistern, safety valve, water gauge, &c., and a 4 bushel wrought-iron pan suspended on brackets for facility of emptying.

Picksley, Sims and Co. (Limited), of Leigh, had a large collection of their hayrakes, reapers, and mowers, with new sets of harrows. The horse rakes have light leverage, which throws the teeth quickly back in work.

The Ravensthorpe Engineering Company, Mirfield, had a complete set of Fiskin's steam ploughing tackle for a 10 or 12-horse power engine, and a new set for an 8-horse engine, which was shown at work on the farm of J. B. Jones, Crwys.

Houghton and Thompson, of Carlisle, had several horse hay rakes and a combined mower and reaper.

W. Rainforth and Son, of Lincoln, received high commendation from the judges after trial of their adjustable rotary corn screen, and also for their winnowing or corn dressing machine.

Riches and Watts, of Norwich, had several chaff cutters, some disc root pulpers, an American horse rake and hay gatherer, lever steerage horse hoe, and liquid manure cart.

Holmes and Sons, of Norwich, besides corn dressing machines, had five drills of various kinds.

E. R. and F. Turner, of Ipswich, had many corn grinding and crushing mills, oilcake breakers, roller mills, and horse gear work.

Wm. Smith, of Kettering, exhibited five of their prize improved horse hoes, and several grindstones.

C. Dening and Co., of Chard, besides several chain corn drills and horse gears, had some apple mills for making cider, with granite rollers which crush the pips.

James Cornes and Co., of Nantwich, made a good display of chaff cutters, a horse rake, and several curd mills and cheese presses.

Lewis and Co., of Shrewsbury, also had a large number of chaff cutters, some pulpers and slicers and hand-rollers.

Hunt and Tawell, of Halstead, beside some corn and seed drawing machines, one of which on trial was highly commended, and sets of horse gear, had a great many samples of Ransomes' improved implements.

R. Hornsby and Sons, of Grantham, had a fine collection of implements. They have added a new finger to all their Royal Society's first-prize reapers and mowers, one of which was sold to the Marquis of Bute; a good assortment of single and double furrow ploughs, improved in details, was shown. They also obtained the second prize in competition for their rotary adjustable corn screen, although they carried off the first at Bury, in 1867, on this occasion, a fixed flat screen was preferred by the judges.

Ransomes, Sims, and Head, of Ipswich, had on their stand a large assortment of their various ploughs, horse rakes, and whippetrees.

John Fowler and Co., of Leeds, had a 14-horse single-drum and a 12-horse double-drum self-moving engine for ploughing and cultivating; a 6 and an 8-horse traction engine with waggons attached; a 5-furrow balance plough; a 7 and a 9-tined turning cultivator; and four of Pirie's double-furrow horse ploughs.

The miscellaneous portion of the ground devoted to seeds, roots, models, manures, and cattle foods, we must pass over briefly in conclusion, for the name of the exhibitors was legion. The great seedsmen now make it a point

to transport their large travelling museums of seeds and roots to all the principal shows, each vying with the other as to the extent of ground his stand shall cover, and the descriptive space the enumeration of his display and the list of his titles and honours shall occupy in the local and metropolitan journals. All the eulogiums we could therefore pay would fall short of such panegyrics, and would add little to the high reputation and extensive business connections they have established. Messrs. Sutton and Co., Carter and Co., T. Gibbs and Co., J. C. Wheeler and Son, and others were so well represented that a bare enumeration of the objects shown would require for each a pamphlet almost as long as the Society's official catalogue. Since, therefore, we have necessarily been brief in our notices of the stands of the leading implement makers, we can scarcely in justice give more extended space to this class of exhibitors, and we fear the fifteen or twenty lines of description with which some are content in the catalogue would scarcely satisfy our readers if continually reproduced here.

The machinery in motion was divided into two parts, arranged on different sides of the Show-yard, on the west and south, and comprised about fifty-eight stands, although several were unoccupied. Taking these in rotation after a careful inspection, we noted the following specialities:

G. L. Scott, of West Gorton, Manchester, a wheel-moulding machine; a patent force pump, suction pump, or fire-engine adapted for agricultural purposes; and a model of a steam ventilator for mines, tunnels, &c., driven by one of Robey and Co.'s 6-horse portable engines.

Jonathan Pickering, of Stockton-on-Tees, had a collection of sack hoists and pulley blocks, and a screw jack to lift from 2 to 10 tons.

Russ, Morris, and Co., of London, exhibited a 6-horse power portable, combined, vertical steam engine and brick-making machine, which, with a double and single alternate delivery, is capable of producing from 10,000 to 15,000 bricks per day; a portable brickmaking machine, fitted with crushing-roller by the same inventors; a new sliding cylinder expansive steam-engine, with ordinary vertical boiler, and Stafford's straw elevator, 20 feet delivery at any angle.

J. D. Pinfold, of Rugby, had one of his improved self-acting brick and tile-making machines at work, which requires no labour, driven by a Brown and May's 8-horse engine, fitted with patent water-heater and straw jacketed cylinder; a three-horse boiler and engine combined, price £55, suited for farm use or export. This exhibitor also showed a grinding-mill combined with flour-dressing machine, which appeared to do its work well, and is also adapted for grinding any kind of grain for cattle-food.

Oldham and Booth, of Kingston-on-Hull, had two bone mills in motion, driven by one of Robey and Co.'s 8-horse engines. The 6-horse power double-roller mill had a revolving riddle to separate the $\frac{1}{2}$ -inch and $\frac{1}{4}$ -inch bones from the dust; the other was for crushing $\frac{1}{2}$ -inch bones into dust.

Powis and Co., of London, made a very meagre display of some of their woodcutting machinery.

Robert Maynard, of Cambridge, had one of his portable steam-power sifting and elevating chaff-engines at work, driven by an 8-horse engine of Burrell's. He also exhibited a new patent seed-drawer.

Edward Humphries, of Pershore, had four of his combined thrashing and finishing machines, driven by one of Clayton and Shuttleworth's 7-horse engines.

Brown and May, of Devizes, had some of their portable engines on the ground, one of which, an 8-horse—the same in principle and construction as that which received a prize at the Oxford meeting—was after trial, commended by the judges here. The firm had also one of Nalder's combined thrashing machines in motion.

Tuxford and Sons, of Boston, had an eight-horse engine

and combined thrashing machine entered for trial. They also exhibited several of their small-power portable engines, their improved prize cultivating windlass, a 16-horse power improved horizontal portable steam-engine, with two cylinders and improved multitubular boiler, economical, and capable of working up to a very high power, and Appold's centrifugal pump in action.

J. C. Willsher, of Braintree, entered two new thrashing machines for trial, fitted with chaff-sacking apparatus.

S. Corbett and Son, of Wellington, entered two corn-dressing machines for trial, worked by one of Clayton and Shuttleworth's 6-horse engines. Among their new implements shown, were a pulverizing plough, a ridge plough, a potato-raising plough, improved disc root-pulpers and turnip-slicers, and two of their corn-dressing machines. They had also a double plough with steel breasts, an improved turnip-scuffer, and a combined scuffer and grubber.

Ransomes, Sims, and Head, of Ipswich, had four engines, working a 6-horse, an 8-horse, a 10-horse, and a 12-horse. They had their thrashing machine at work, their two double-blast finishing machines, with 54 and 60-inch drums respectively, one single-blast, with 60-inch drum, and patent wrought-iron concave. The firm carried off in the trial competition the second or £20 prize for their finishing and single-blast machine, and also a silver medal for their patent drum and concave.

Clayton and Shuttleworth, of Lincoln, had four engines on their stand, two eight-horse, one seven, and one six-horse power, driving two portable double-blast thrashing and finishing machines with 54-inch drums; and two straw elevators; also a corn-grinding mill for agricultural and other purposes, which has carried off a good many of the Society's first-prizes. On this occasion the firm received the first-prize of £40 for their eight-horse engine; £40 for their portable elevator for stacking straw or corn, to be worked by a horse, or in connection with a thrashing-machine; £5 for another portable straw elevator; the silver medal for their thrashing and finishing machine; and high commendation for one adapted for an engine of six-horse power.

R. Hornsby and Sons, of Grantham, who did not go into general competition, had a patent fixture combined thrashing and finishing machine, driven by one of their nine-horse power portable engines; and a patent adjustable corn screen.

E. R. and F. Turner, of Ipswich, had an eight-horse and a three-horse portable engine, driving a combined double-blast thrashing and finishing machine; and another suited for small occupations, provided with two fans, but no screen.

Holmes and Sons, of Norwich, had two combined portable thrashing machines, driven by one of their eight-horse portable engines. One of these machines was commended by the judges; and they also carried off the £10 prize for their seed-drawer, with dressing apparatus. The exhibitors claim the invention of placing the sheller and the bottom and dressing-sieves at the top, thereby saving much manual labour. They also showed some corn-dressing machines.

Davey, Paxman, and Co., of Colchester, had one of their eight-horse power portable engines, with jacketed cylinder, fitted with their expansion valve for cutting off the steam at any required power, thereby preventing wire-drawing of the steam, and effecting a saving of fuel. This, after trial, was highly commended by the judges. The firm also exhibited three of their vertical engines and boilers, of six, four, and two-horse power, driving one of their patent steam corn-drying machines, 12 feet by 25 inches. The vertical engines have bent taper water-tubes with the exhibitors' patent deflectors. The

largest amount of heating surface is thus obtained, a perfect circulation of the water is effected, and priming is prevented.

Riches and Watts, of Norwich, had one of their portable eight-horse steam engines; and two small-power vertical combined engines and boilers, driving a combined thrashing and finishing machine; and some of their Eureka grinding and American grist mills.

Richmond and Chandler, of Salford, had several of their improved chaffcutters at work, driven by one of Clayton and Shuttleworth's four-horse engines.

Ashby, Jeffery, and Luke, of Stamford, had an eight-horse portable engine of their make, working two combined thrashing machines; also improved small-power vertical engines, which are much cheaper than the ordinary horizontal portables.

Barford and Perkins (late Amies, Barford, and Co.), of Peterborough, showed some of their well-known steam food-preparing apparatus in operation; also one of Clayton and Shuttleworth's 8-horse power double cylinder portable steam-engines as improved by the exhibitors, driving corn-grinding and other mills. The improvements made by Messrs. Barford and Perkins are new patented traversing arrangement, adjusting screws to fore and hind axle for setting square with pulley of thrashing or other machine, patent cord system for driving engines, &c., with one man only. These improvements were considered sufficient by the judges to warrant them in awarding the exhibitors a silver medal.

Cambridge and Parham, of Bristol, had a 6-horse and an 8-horse portable engine, driving a double and a single-blast thrashing machine. The engines were fitted with the exhibitors' patent water-heater, which, utilising the waste heats from the exhaust steam, and that which comes from the tubes in the smoke box, boils the water, and saves one-third of the fuel. As the price of fuel is so high now, any economy that can be practised is important, and this water-heater, which has been in use now two years and a-half, appears to give satisfaction.

Charles Burrell, of Thetford, had an 8-horse power double-cylinder road locomotive, with Thomson's patent indiarubber tires and Burrell's patent improved clip-shoe, specially adapted for road traffic, fitted with fast and slow gear; also an 8-horse single-cylinder traction engine, fitted with double power, and mounted on springs.

W. N. Nicholson and Son, of Newark, had three combined vertical engines on water-tank base. They are models of simplicity throughout. The boilers have two welded cross tubes, and are tested to a pressure of 120 lbs. to the square inch.

Barrows and Stewart, of Banbury, exhibited two sets of their thrashing machinery, consisting of an 8-horse power steam engine, and a 10 ft. 6 in. drum machine, with finishing apparatus complete; a 6-horse power portable engine, working a 4 ft. 6 in. double-blast machine, without the finishing apparatus. The engines have steam-jacketed cylinders fixed on the smoke-box end of the boilers, the steam being thus used in the driest state, and resulting in a considerable saving of fuel, avoiding the risk of cutting through priming. The boilers are continuous from end to end, thus securing strength and a large amount of steam space. The thrashing machines appear to be strong, simple, and compact, and embrace several improvements, such as spring shakers, which do away with the loose wear-and-tear of the old-fashioned rockers, and an apparatus is introduced for thrashing beans without an extra drum.

The Reading Iron Works (Limited) had a 54-inch combined portable thrashing machine, with patent drum-beaters, strong wrought-iron breasting, double-shaker cranks, and all the recent improvements, driven by one of their 8-horse power portable steam engines. This

engine, after a close contest with Clayton and Shuttleworth, was awarded the second prize.

The Dunstone Engine Works Company, of Gateshead-on-Tyne, had a combined Archer's stone breaker and steam road-roller at work; it rolls five feet wide, weight about 12 tons, and will break 35 tons of granite per day. They had also at work Mr. Thomas Archer jun's new patent stone breaker, which will break 4 tons per hour, and elevate the same into trucks.

Marsden and Co., of Leeds, had one of Blake's patent stone breakers, or ore-crushers, worked by one of Barrows and Stewart's 10-horse power portable engines; also one of Marsden's new machines, a great improvement on the former stone breakers. For this the judges awarded a silver medal.

Woods, Cocksedge, and Warner, of Stowmarket, had 4-horse and 2-horse vertical engines of their own make, driving corn-grinding mills. These engines are simple and easy to manage, with strong boilers, well adapted for farms, factories, or any confined space.

Wallis and Steevens, of Basingstoke, only showed their slow-motion automatic folding elevator, for which they received the silver medal of the Worcester Agricultural Society last year. The thrashing machines and engine entered by this firm were not sent.

Nalder and Nalder (Limited), of Wantage, had three thrashing machines and a simple and light straw elevator, worked by one of Brown and May's 7-horse portable engines.

P. and H. P. Gibbons, of Wantage, had three of their combined thrashing machines in action, driven by two of their engines, a 7-horse and a 4-horse engine. One of the machines received commendation.

W. Tasker and Sons, of Andover, had three combined thrashing machines and two patent balance elevators, driven by one of their 8-horse power portable engines, fitted with patent adjustable excentric, and an efficient feed-water heater and spark catcher. Two of the thrashing machines were highly commended by the judges.

Ruston, Proctor, and Co., of Lincoln, had three combined thrashing machines, driven by their own engines. One of these thrashing machines was commended by the judges.

Marshall, Sons, and Co. (Limited), of Gainsborough, had some of their thrashing machines at work, driven by their own engines. They carried off the first prize of £40 for thrashing and finishing dressing machine, drum 4 ft. 6 inches, fitted with Rainforth's patent adjustable corn screen, improved barley awner and smutter, straw shakers, and all modern appendages; another of their thrashing and dressing machines but without the finishing apparatus, was also highly commended by the judges. Their portable steam engine 8½ cylinder and 12-inch stroke, was also highly commended.

E. S. Hindley, of Bourton, Dorset, had a 6-horse portable thrashing machine and two portable engines at work.

Stephen Lewin, of Poole, had a thrashing machine and several steam engines. For his patent stacking machine, worked by horse gear, he received from the judges the second prize of £5.

Southwell and Co., of Rugeley, had in operation some of their grist mills and chaff-cutters, several of which are manifest improvements and entered as new implements. The British grist mill has an entirely new and effectual arrangement for passing pieces of iron, &c., without injury to the grinding surfaces, and is quite within the power of two horses or bullocks in any ordinary gear. It seems well adapted to colonial purposes. Another mill half as large again can be worked by three horses, or by a small steam engine, and would be useful to millers.

One of their improved chaff-cutters has an extra large fly-wheel of immense power, an improved steel mouth-piece dove-tailed into the castings, with reverse and stop motions: will cut 3 lengths.

Hayward, Tyler, and Co., of London, had a vertical steam and pumping engine in operation.

Joseph Gilbert, of Evesham, had two of his combined thrashing machines, worked by one of Ruston and Proctor's 7-horse power steam engines. These machines were fitted with patent barley awner, drums 54 inches long by 20 inches diameter, and Coulson's spring hangers and Penney and Co.'s patent rotary expanding corn screen.

Timothy Thomas, of Cardigan, had a useful combined gorse or furze-cutting and bruising machine, a combined grinding and crushing mill, a 4-horse thrashing machine, with straw shaker combined, and other machines, driven by one of Clayton and Shuttleworth's 7-horse portable engines.

J. L. Norton, of London, besides some patent tube well-driving apparatus, had a grinding and disintegrating mill.

Head, Wrightson, and Co., of Stockton-on-Tees, exhibited a number of Moore's patent pulley blocks.

Edward Hayes, of Stony Stratford, had one of his improved self-acting windlasses and anchor for steam cultivation, intended to work with the ordinary single-cylinder portable engine of 6 or 8-horse power, thus employing the engines already in use on the farm; and a force pump, combining the ordinary portable and steam fire-engine.

James Hall and Co., of Lincoln, had some of Tye's corn-grinding and other mills.

Peacock and Wilson, of Gooale, had one of Cambridge and Parham's 6-horse engines, driving some universal disintegrators, for farmers and others.

Albert Watson, of Andover, had two elevators, for rick-ing by horse power, with the necessary gear.

Wade and Cherry, of Hull, had a combined pugging, making, and pressing patent brick and tile-making machine.

AWARD OF PRIZES.

JUDGES:—

PORTABLE STEAM ENGINES.

F. J. Bramwell, C.E., 37, Great George Street, London, S.W.
W. Menelaus, C.E., Dowlais, Merthyr Tydvil.

PORTABLE STEAM THRASHING AND FINISHING MACHINES, AND STRAW OR HAY ELEVATORS.

Major H. V. Grantham, West Keal Hall, Spilsby.

John Hemsley, Shelton, Newark.

John Hicken, Dunchurch, Rugby.

J. W. Kimber, Tubney Warren, Abingdon.

SEED DRAWERS, CORN DRESSING MACHINES, AND CORN SCREENS.

F. Sherborn, Bedford, Middlesex.

W. H. Clare, Twycross, Atherstone.

MISCELLANEOUS.

Henry Cantrell, Bayliss Court, Slough.

Matthew Savidge, The Lodge Farm, Sarsden, Chipping Norton.

COTTAGE PLANS.

George Hunt, Evesham.

Charles Randell, Chadbury, Evesham.

Thomas Sample, Bothal Castle, Morpeth.

Portable Steam Engine (not self-moving), not exceeding 8-horse power.—First prize, £40, Clayton and Shuttleworth, Lincoln; second, £20, The Reading Iron Works Company (Limited). Highly commended: Davey, Paxman, and Co., Colchester; Marshall, Sons, and Co. (Limited), Gainsborough. Commended: Brown and May, Devizes.

Combined Portable Thrashing and Finishing Machine, to be worked by steam, and adapted to the preparation of corn for market.—First prize, £40, Marshall, Sons, and Co.;

second, £20, Ransomes, Sims, and Head, Ipswich. Highly commended: Clayton and Shuttleworth. Commended: Ruston, Proctor, and Co., Lincoln.

Combined Portable Threshing Machine, to be worked by steam, which has no corn screen or other apparatus for sorting the grain for market.—First prize, £40, Clayton and Shuttleworth; second, £20, Ransomes, Sims, and Head. Highly commended: Marshall, Sons, and Co.; W. Tasker and Sons, Andover. Commended: Holmes and Sons, Norwich; P. and H. P. Gibbons, Wantage.

Straw Elevator, to be worked by steam in conjunction with a Threshing Machine.—First prize, £10, Marshall, Sons, and Co.; second, £5, Clayton and Shuttleworth. Highly commended: W. Tasker and Sons, Andover.

Straw or Hay Elevator, to be worked by horse-power.—First prize, £10, Clayton and Shuttleworth; second, £5, S. Lewin, Poole, Dorset. Highly commended: Tasker and Sons; P. and J. Reeves and Son, Westbury.

Seed Drawer.—Prize of £10, Holmes and Sons, Norwich. Highly commended: Hunt and Tawell, Earl's Colne.

Corn Dressing Machine.—First prize, £15, J. Cooch, Harlestone, Northampton; second, £10, T. Baker, Compton, Newbury; third, £5, Nicholson and Son, Newark. Highly commended: Rainforth and Son, Brayford Head, Lincoln. Commended: Corbett and Chipchase, Shrewsbury; J. Baker, Wisbeach.

Corn Screen.—First prize, £10, R. Boby, Bury St. Edmund's; second, £5, Hornsby and Sons, Grantham. Highly commended: Coleman and Morton, Chelmsford; Rainforth and Son. Commended: T. Corbett, Shrewsbury; Penney and Co. (Limited), Lincoln.

SILVER MEDALS:

Reid and Co., Bon Accord Works, Aberdeen, for Patent "Disc" Broadcast Sowing Machine.

Barford and Perkins, Peterborough, for new Patented Adjusting Screws, for Setting Square Threshing and other Machines.

Clayton and Shuttleworth, for "Wilder's" Patent Self-feeding Apparatus attached to Threshing Machines.

Marsden and Co., Leeds, for "Blake's" Patent Stone Breaker.

Ransomes, Sims, and Head, for Patent Drum, adapted for Threshing Machines.

Lawrence and Co., St. Mary Axe, London, for Patent Capillary Refrigerator for Cooling Milk.

Cottage Plans.—*No merit.*

STEWARDS OF IMPLEMENTS:

C. Wren Hoskyns, M.P., Harewood, Ross, Herefordshire.

W. J. Edmonds, Southrope House, Lechlade, Gloucestershire.

T. C. Booth, Warlaby, Northallerton.

C. Whitehead, Barming House, Maidstone (Steward Elect).

THE GENERAL MEETING.

The annual general meeting was held on the Tuesday, on the show ground, Sir Watkin Williams Wynn, Bart., M.P., in the chair.

Mr. JENKINS, the secretary, read the award made for the best-managed farms in Monmouthshire and South Wales, as follows:

To the Council of the Royal Agricultural Society of England: My Lords and Gentlemen,—The judges appointed to award the prizes for the best-managed farms in South Wales and Monmouthshire have inspected the nineteen farms entered for competition, and beg to submit the following decisions, namely: The first prize of a hundred guinea cup, presented by Sir Watkin W. Wynn, Bart., M.P., president of the Society, we award to Mr. W. S. Powell, of Eglwysmydydd, near Tŷbach, Glamorganshire. The second prize of £50, given by this society, we award to Mr. Valentine Parsons, of Clough Farm, Caerwent, Monmouthshire. We also highly commend the following competitors for clean and in other respects creditable farming, namely, Mr. David Owen, Ash Hall, Cowbridge; Mr. Michael Spencer, West Aberthaw, Cowbridge; Mr. Rees Thomas, Saint Athan, Cowbridge. Commendations for certain special features in their management were also awarded as follows: To Mr. James Culverwell, of Penrhos Farm, Abergavenny, for varied improvements effected in the removal of dead and useless fences and levelling of unsightly banks and ditches, partially at his

own cost, of well-arranged additional buildings, and for his fine flock of Cotswold sheep; to Mr. John Jones, of Pantygoitre, near Abergavenny, for the judicious selection and management of very superior grazing beasts brought to fatten on deep rich land; to Mr. William Benjamin Roberts, of Lovestone, near Pembroke, for his very creditable herd of Pembroke cattle, and his excellent flock of Cotswold and Leicester sheep.—We have the honour to remain, my lords and gentlemen, your obedient servants,

THOMAS BOWSTEAD,
THOMAS JENKINS,
FINLAY DUN.

Mr. Powell was called to the platform, and the PRESIDENT, in addressing him, said: I have great pleasure in giving you this cup. From all I can hear from the judges, they had very little trouble in selecting your farm for the award. They are perfectly well satisfied with the management of your farm, and with all the improvements on it, and I again say I have much pleasure in giving this cup to you.

The SECRETARY then read from the report of the judges as to the award for the best plans for cottages for labourers, as also cottages for miners—offered by Lord Bute and Major Turbervill. 42 entered for the former, and 14 for the latter, but none were considered worthy of merit.

Lord CATHCART proposed the thanks of the Society to the town of Cardiff and Local Committee. Having some experience, he knew not where they had had a more compact—certainly never a better fenced-in—showyard than this. They must have seen, in coming down from town, that there was room for improvement as regarded drainage and others things. But on the other hand, to be fair, he must say what was told him in the train, namely, that some of the ground they had passed through was classic ground, because a no less celebrated horse than Eclipse was bred in one of the meadows they had passed. The thanks of the Society were due then to the local committee, and especially the mayor, who had been anxious throughout in the matter that everything which could be done should be done at Cardiff.

Mr. DENT seconded the resolution.

Mr. AVELING proposed the thanks of the Society to the railway companies for the manner in which they had conveyed the machinery, &c., to the yard, and this was duly seconded.

Lord KESTEVEN proposed the thanks of the meeting to the Marquis of Bute for the facilities he had afforded to the Society's meeting at Cardiff on this occasion. They had had today, and all the past week, the advantage of ground affording greater facilities than any he ever remembered. They had had the advantage of the noble marquis's support in every possible way.

The proposition was duly seconded, and carried.

The thanks of the Society were proposed and seconded to Sir Watkin W. Wynn, Bart., M.P., the President.

Sir WATKIN WYNN, said: They met there under certain disadvantages, being away on the Welsh sea coast, and far from the centre of England, and the great centre of breeders. And there was another disadvantage which tended to a great extent in lessening the number of cattle entered for competition, for no less than 148 animals had not arrived. The foot-and-mouth disease was the cause of this, and it was naturally the cause of fear amongst all breeders of cattle, and prevented them from coming. He would use this opportunity of stating what the council had done within the last few days in trying to prevent the spread of it. They went as a deputation first of all to Mr. Forster, the vice-president of the Privy Council, who received them in the most courteous manner, and after listening to what the deputation had to say, promised to give his cordial support. As to all the other things done by the council, he believed through the press they had been pretty well reported. There were one or two actions coming on, and as they were so soon going for trial he would not trouble them upon the question now.

Mr. WREN HOSKINS proposed, and the Hon. W. EGERTON seconded; the election of Lord Cathcart as president for the ensuing year.

Lord CATHCART in acknowledging the compliment, said he felt very strongly that his friend Sir Watkin Wynn, if not a Prince of Wales, was certainly a Prince in Wales. He (Lord Cathcart) had no pretension to be a territorial magnate, nor to great possessions, but he had lived to enjoy good-will in his own neighbourhood, and he attributed that to a constant and hearty desire to do his duty in that situation he found

himself. He endeavoured to promote good feeling, and to show kindness and courtesy to all men, whatever their rank or possession, and in any assembly of Englishmen or Scotsmen these qualities—if thoroughly put forth—would be some qualification for public duties.

THE MAYOR'S DINNER.

Mr. THEODORE M. TALBOT, in responding for his father, the Lord-Lieutenant of the county, deeply regretted that, owing to illness in his family, he was unable to be present. And this the more because he had been long and intimately connected with agriculture, and though a landowner in a very poor farming county, had been one of the first to commence a system of high farming.

Mr. VIVIAN, M.P., said : I cannot help congratulating you on this occasion that we are met here to-day to honour the Royal Agricultural Society of England, a Society which I believe has done more good for the prosperity of this country than any other Society in the whole of the United Kingdom of Great Britain. Now, this Society is not an æsthetic dilettante Society which contents itself upon speculating upon remote changes. This is a Society of a thoroughly agricultural nature, which goes straight to its point, and it has done, I believe, more good to benefit mankind than any other Society among us. This is not essentially an agricultural county. With one exception only—that of Lancashire—there is no county in England, according to recent Parliamentary returns, in which the valuation of land bears so small a proportion with the whole assessment of the county. But I believe there is no county in England which upon the same ground is more indebted to the Royal Agricultural Society of England, because if we don't ourselves produce the food, at any rate we eat it largely, and unless other districts of England produced an excess as compared with ourselves, I don't know what our position might be. The essential object of the Royal Agricultural Society of England is to make two blades grow where one grew before. They have striven every way, and any one who has studied the records of this Society cannot fail to be impressed with the thorough manner in which they go into all the results of agriculture, and encourage every branch of that great industry. They have encouraged improvements of every kind, and I can safely say they have during the last half century, or, rather, during the last thirty years, increased the produce of this country in a very great degree. I have been proud to find that among the prizetakers in sheep some of our old vale farmers from the neighbourhood of Cowbridge have taken first prizes. Now what is that due to? It is due entirely to the old Agricultural Society of Glamorgan, which for many years has existed in that neighbourhood; and I could not but feel when I saw my old friend Lord Tredegar to-day in the showyard how much we were indebted to him for fostering that and other societies; for sure am I if he had not done so we should not at this meeting have found the taker of a first prize from Glamorganshire. We are a great manufacturing county, and I am convinced that we shall all of us derive lessons from the machinery which we see in the showyard, and which we shall take home with us and moralise over. In walking over your showyard I met one of the greatest managers of works in this county, and I talked to him in reference to the machinery, and he said to me, if the same ingenuity had been applied to the manufacture of iron as had been applied to the production of machines or agricultural purpose, we should be producing our iron, in his opinion, a pound or two cheaper.

Lord BUTE said: I feel myself happy in being able to offer for the use of the Agricultural Society a site, the capabilities of which were, I believe, not among the least of those considerations which induced them to fix upon Cardiff as the scene of the present meeting. And I beg to embrace this occasion for thanking them, more especially on the part of my own tenants, for their acceptance of that invitation which I, among others, joined in offering them at Hanover-square.

[It appears that the reporters were so placed at this dinner as to be able to hear but little that was said, more especially by the President of the R. A. Society.]

The Marquis of Bute entertained at luncheon on the same day the members of Council, the implement judges, and the veterinary surgeons.

TENANT-RIGHT AT HOME AND ABROAD.

In some proof of how the Tenant-Right question is spreading it may be stated, appropriately enough here, that during the past week M. Pluchet, President of the Agricultural Committee of the Seine and Oise, accompanied by his son, a member of the Central Agricultural Society of France, were visitors at Cardiff. The chief object, however, of these gentlemen was not so much to purchase stock or to study machinery, as to acquire some knowledge of the Tenant-Right principle. From the Royal show they went into Lincolnshire, and have now returned to France, taking with them the Digest of the House of Commons Evidence, the Prize Essay, and the Farmers' Club papers on Tenant-Right. Mr. Pluchet is, moreover, very anxious to have a copy of Mr. James Howard's speech as put down in the notices of the House for Tuesday, July 30th. But we fear there will be some further disappointment as to the question coming before the House of Commons, as the Government has now taken to itself the power of putting its own orders of the day before the notices of motion by private members on Tuesday evenings as well as at the morning sittings. The result of this unusual licence will most probably be that Mr. Howard will again be denied his opportunity, and that the Tenant-Right cry will not be sounded in Westminster during the present session.

Something may still be learned from the customs of other countries. The subject formed no inconsiderable part of the inquiries directed by the late Lord Clarendon, in view to landed legislation for Ireland: "Full information should be given as to the limitation of proprietary rights, whether the granting of leases and compensation for improvements have been enforced by legislation; how far, if at all, the positive law is modified by custom; and, also, how far such custom is recognised by the courts; and what are the precise relations between landlord and tenant, and their mutual rights."

In Belgium no law or custom exists whereunder a tenant is considered as having a right to remain in occupation as long as he pays a stipulated rent. In respect of improvements executed by the tenant without the previous consent of the landlord, the proprietor has the option of requiring the tenant to remove the same, and restore the property to its original condition without any compensation, or he may retain the improvements. In such case the tenant is entitled to an indemnity, but only to the extent of the cost, and not the actual value, whatever that may be. Where consent for buildings has been previously obtained it is a principle of law that the indemnity is based not on the actual value of the buildings in connection with the remainder of the property, but upon the cost of construction and the condition of the buildings at the termination of the lease. In France the proprietor generally constructs all buildings; if the tenant builds he does so at his own risk. At the end of his lease he can remove such buildings, as he is only obliged to leave on the farm what he found on it. In practice there is generally an understanding between landlord and tenant about improvements. For example, if the tenant wishes to drain the landlord advances a certain sum, and the tenant pays 3 per cent. interest. The same system is adopted if new buildings are required. There is scarcely any question of enforcing or defining rights on either side, and the consequence is they very rarely become matters of contention. The simple reason we are told for such a happy state of things is that two-thirds of the land are cultivated by the proprietors themselves, and not by the tenants.

The duration of leases in another more southern country, namely Portugal, is for the most part brief. The vast majority of them are in the nature of tenancies at will, from year to year: longer than five or six years are exceptional. It is easier to obtain a lease for a term of years of corn or pasture land than of vineyards, olive yards or orange groves, since a dishonest tenant will have more temptation and greater facilities to exhaust the latter than the former, during the period of his tenure. A system of perpetual leases was introduced in the Alemtejo in the latter half of the eighteenth century. They were devised as a means of colonising the waste lands of that province, and their leading incidents were, that the landlord could neither evict the tenant nor raise the rent except by Royal Licence, or where the landlord wished to cultivate the farm himself. These laws were a complete failure: the landlord had always the power of harassing the tenant, who, in his turn, uncertain as he was of the duration of his tenure, mostly exhausted the soil; and at the end of a century's experience the cultivation of the Alemtejo, if it had not retrograded, had certainly not made a step in advance. In Denmark, when the landlord and the new tenant have come to a preliminary understanding two "impartial persons" are called in, who attest in writing the state of the farm-buildings and soil. If the landlord considers that improvements are immediately required he must undertake them himself. The same persons likewise examine and appraise in a catalogue the beasts, implements, and seed, which the law requires the landlord to supply. Should the inventory note a failure, the tenant need pay no rent until his wants are supplied. The outgoing tenant or his heirs may claim compensation for all improvements *whatever* effected by him which have added to the marketable value of the farm. A tenant intending to make large improvements must give notice to the landlord, in order that a survey may be held on which to base eventual claims for compensation. In Holland improvements, particularly buildings, are always made by the landlord, except in those special cases where the contrary is specified in the lease. Unless specially stipulated, the law gives the landlord, upon resuming possession, no legal right to the improvements made upon the farm by the tenant. On the contrary, the latter may in leaving, remove and take away with him all that he has erected at his own expense, provided only no injury be thereby done to the property. Should the landlord forcibly attempt to prevent such removal, the tenant may appeal to the court, which, after proper inquiry, will authorize the removal, and send police-officers to see that it is effected. The claims of the tenant are not necessarily forfeited by the mere circumstances of his having delivered up the farm.

The general incidents of a tenancy in Piedmont are that the farmer takes over the property under a detailed inventory, which describes minutely the condition of the farm-buildings, the shape and extent and cultivation of the fields, the number of trees and plants and their dimensions, the quantity of fodder and manure existing on the farm, &c. At the end of the lease the tenant is bound to deliver up to the proprietor the farm as he found it, the usual allowance for usage of the buildings excepted. The tenant gives a mortgage on any property he may have as a guarantee for the payment of the rent, or, if he has no landed property, rent in advance, for which he receives a stipulated interest. In the irrigated plains of Lombardy the tenant always enters on his farm on St. Martin's Day (11th November), and leaves it at the same epoch. He is obliged, however, to make over to his successor in the previous July some of the farm-buildings and a third part of the land. Similar customs prevail with regard to security given to the landlord as in Piedmont. The tenant when he receives the farm from the engineer of the estate,

with a detailed inventory, binds himself in general terms to improve and not to deteriorate the land, to maintain a fixed number of cattle, and to use up all the hay, as well as with some exceptions the straw and Indian-corn leaves and stubble. The Government taxes are sometimes to be paid by the proprietor, sometimes by the tenant; but even in the first case the farmer has to advance the money when payment is due. The provincial taxes are generally, if not always, at the charge of the tenant. In Prussia the tendency of the law is to protect the agricultural tenant during the term of his agriculture; the law, however, gives the lessee no right to compensation for the un-sanctioned improvements, but it renders the process of eviction difficult of execution.

When we cross the Atlantic the circumstances are altogether different, since land is so cheap that every provident man may own land in fee. The Government is the great landlord, and under the homestead law every citizen or any foreigner after a residence of five years can secure an absolute title to a farm of 160 acres in any unappropriated territory of the United States surveyed for occupation. The possession of land of itself does not bestow upon a man as it does in Europe a title to consideration; indeed, its possession in large quantities frequently reacts prejudicially to his interests as attaching to him a taint of aristocracy, which is distasteful to the mass of the American people. As a system, tenancy cannot be said to exist; but where there are exceptions, tenants are not considered as having a right to stay in their holdings continuously without the landlord's consent. Permanent repairs are usually made by the landlord. The law recognizes no right in the tenant to any improvements made except under covenant in his lease; otherwise, they form part of the real estate and property of the landlord. A very large portion of the farm lands are owned by men who have in their early life been tenants, and among the industrious and frugal of the tenants the great object of their exertions is to become landlords. The facilities for so doing are much greater than in many European countries, where the sale and transfer of land are so hampered by legal complications, and entail such heavy expenses, as frequently to discourage such operations. In the United States, on the contrary, the sale and transfer of land are conducted with about the same ease as would be the sale of a watch.

THE PRIZE SYSTEM.—The Society of Arts offers five prizes, one of £60, two of £20, and two of £10 for "the best improved cab of any description"—to be exhibited at the International Exhibition in 1873. But surely this is all very wrong, considering the highly satisfactory condition in which the Loudon cabs are already, without so obsolete and so impolitic an incentive as a prize. We shall see what we shall see.

THE SALISBURY HOTEL COMPANY.—At a meeting of the shareholders at the Hotel, on Monday, July 1st, Mr. Henry Trethewy in the chair, it was determined to provide additional bed-room accommodation in the hotel, the directors having arranged for a lease of the requisite site for a term co-extensive with their present lease. There will be thirty-seven additional bed-rooms for visitors and five for servants. It was stated that the receipts of the Hotel for the first five months of this year have exceeded by £675 the amount taken during the corresponding five months of last year, and that during the same period about 700 visitors have been refused accommodation in consequence of the house having been full. The additional capital required to make these extensions was raised in the room.

VALUE OF LAND IN KENT.—The Tunstall estate, near Sittingbourne, containing nearly 1,000 acres of arable and wood lands, has just been sold by auction in 22 lots for £72,250.

THE LORD-LIEUTENANT'S PRIZES FOR SMALL FARMS.

The following is a copy of the correspondence referred to by Lord Spencer in his recent speech at the dinner of the Royal Dublin Society, in regard to the prizes for small-farm management :

Viceregal Lodge, Dublin, 29th March, 1872.

GENTLEMEN.—By his Excellency's desire, I am requested that you will lay before the Commissioners of National Education the following proposition in his behalf, in the hope that they may be able to assist him in the manner suggested : I am to state that his Excellency has long taken an especial interest in the welfare of the very numerous class of Irish small-tillage farmers, and has held the opinion, which personal observation of their condition and prospects in various parts of the country has amply confirmed, that their present style of farming and the management of their homesteads admits of considerable improvement. It appears that more than half of all the holdings in Ireland—namely, 317,457 out of 608,864 (from both of which figures, however, some deductions must be made for the cases in which two or more separate holdings being in the occupation of the same individual are enumerated separately)—were valued in 1866 at less than £8 a year. His Excellency thinks that it will not be disputed that in a vast majority of cases these holdings are imperfectly cultivated, and that the habitations upon them are, speaking generally, both inferior and ill-kept. Under these circumstances, and considering that the settlement of the land question, under the act of 1870, has turned the attention of the public to the general condition of the farming classes, and has given an impetus to many improvements in the management of farms, the present has seemed to his Excellency a favourable occasion for an endeavour to direct attention to this very large and important class of agriculturists. In doing so, I am to state that he does not desire to raise or to pronounce any opinion on the very difficult question of the proper size of farms. He would carefully avoid that ; but, at the same time, he is confident that that most interesting question cannot be satisfactorily solved in this country until the small farmers of Ireland avail themselves of the means at their disposal for careful tillage much more extensively than they do now. Among the methods employed to promote good agriculture, his Excellency is of opinion that nothing has been more calculated to benefit the small farmers than the school-farms or gardens under the inspection of the National Board of Education, which, he is glad to observe, are gradually increasing in number. Accordingly, it has occurred to him—more in the hope of seeing his action, if successfully carried out, imitated by others than from any notion that so small a contribution can have any very considerable effect in itself—to offer, on certain conditions, prizes to be adjudged in connection with certain of these school-farms. He has selected eight of them in various parts of the country—viz., in Leinster, Garryhill and Ballinvalley ; in Ulster, Carnagilla and Parkanour ; in Munster, Tervoe and Grange ; in Connaught, Castlehacket and Killasolan ; and, taking round each of them a radius of five or six miles, he proposes to give annually for the next five years three prizes, to be called "The Spencer Small-farm Prizes," and consisting of £3, £2, and £1 respectively, to the occupiers of the three holdings in each of the areas above described, and valued under £8 a year, which shall be adjudged to be the most commendable on the score of (1) the neatness and cleanliness of the house ; (2) the amount and quality of the produce of the land ; (3) the character and condition of the live stock of all sorts, from cows and horses down to poultry and bees ; (4) any other circumstances that may attract the favourable attention of the judges. These prizes should be adjudged about the month of September in each year. In no case should the same individual obtain a prize more than three times in the five years, nor should any prize be given unless there be both competition and merit, as to requisite extent of which the judges should decide. I am to state that his Excellency's object in addressing the commissioners on this subject is to solicit the co-operation of the board to the extent of allowing their agricultural school inspectors, than whom assuredly none could be better qualified, both by their special acquaintance with the subject and by the confidence that would be generally felt in the fairness of their

award—to adjudge these prizes, commencing from September next. If this proposal is adopted by the board, his Excellency believes that, in addition to any direct benefits that may accrue from increased exertion on the part of individuals, it is possible that indirectly a good deal of valuable information may be obtained as to the wants and position of a very large and important class ; and that it may be found desirable to have a short yearly report by the inspectors, conveying their impressions on the subject.—I have, &c.,

(Signed) H. Y. THOMPSON.

The Secretaries of the Board of Education.

Office of National Education, Dublin, 9th April, 1872.

SIR,—We have to inform you that the Commissioners of National Education have had before them this day your letter of the 29th ultimo, which conveys a proposal of his Excellency the Lord-Lieutenant to establish a scheme of prizes for the best managed farms, situated within a radius of five or six miles of certain agricultural schools in each of the four provinces, and inviting the board to place at his Excellency's disposal the services of the agricultural inspectors to adjudge the prizes. We are directed by the commissioners to inform you that they feel much satisfaction in complying with his Excellency's request.—We are, sir, your obedient servants,

JAMES KELLY, } Secs.
W. H. NEWELL, }

H. Y. Thompson, Esq., Viceregal Lodge, Phoenix Park.

ROYAL AGRICULTURAL SOCIETY OF IRELAND.

At the last monthly meeting of the council in Upper Sackville-street, Dublin, Sir Allen Walsh, Bart., in the chair the half-yearly report of the chemist was submitted as follows

South-hill, Blackrock, June 26, 1872.

Since January 1st of the present year down to the present date (June 24) I have made 42 analyses for members of the Royal Agricultural Society. Of this number 23 were superphosphates, 6 phospho-guanos, 8 guanos, 1 crushed bones, 1 nitrate of soda, 1 a cotton cake, and 1 an artificial manure. The average amount of the phosphate of lime rendered soluble was—for the superphosphates, 25.58, and for the phospho-guanos, 22.7 per cent. One of the 8 guanos contained 15.91 per cent. of ammonia, or nearly the quantity yielded by the genuine Peruvian guano of the Chincha Isles ; but the average ammonia from the remaining 7 specimens was only 8.97. The ammoniacal constituent, therefore, of the guanos at present in the market is in amount only about the half of that which they contained about a couple of years ago. This is a matter on which I have already observed in my two last reports, so that it is unnecessary to return to it. There is, however, a point connected with it to which I may here advert. As the most active fertilizing constituent of guano occurs in it at present in diminished quantity, it might be expected that the price of guano would experience a corresponding reduction. Such, it should be known, is not the case. If a farmer at present purchases a ton of guano containing only 12 per cent. of ammonia, he will pay for it quite as much as he would pay some time since for a ton of Peruvian guano including 16 per cent. of ammonia. In fact, the market price of the ammoniacal salts has, within a comparatively short time, undergone a considerable rise ; and one of the consequences of that rise is that, while the value of the guano of the present day is very materially diminished, the original high price is still maintained. This is undoubtedly a result very adverse to agricultural interests ; and I do not see any prospect of an altered state of things, unless through the discovery of new guano islands, or of some mineral deposit of an ammoniacal salt. There is another topic to which I would wish to direct attention in this report. The manufacturers of phosphatic manures generally sell them with a guarantee that they contain bi-phosphate of lime equivalent to a certain amount of soluble phosphate. This amount, however, is, upon analysis, very frequently not found in the manure, and when the vendor is apprised of the deficiency, his reply generally is, that when the superphosphate was freshly made,

the soluble phosphates were up to the mark ; but that, by keeping, a portion may have returned to the insoluble condition, and that precipitated phosphate is of equal value with bi-phosphate. The chemist then is required to ascertain how much of the precipitated phosphates have been formed, and, having done so, to add the result to the soluble phosphates determined by the usual process. I am anxious to take this opportunity of stating that I am quite unable to prove the presence or estimate the amount of these so-called precipitated phosphates. Methods for accomplishing such objects have been proposed, but I have satisfied myself by numerous experiments that they are quite fallacious. This, I may mention, is also the opinion of Professor Voelcker, as will appear from the following extracts from a letter of his, addressed to Mr. William Little, and published in the *Chemical News* of May 27: "Your telegram is not quite clear ; but I presume you wish me to ascertain what proportion of the insoluble phosphates in the superphosphate occurs as precipitated. This I cannot tell you ; for there is no reliable plan for determining the percentage of precipitated phosphates. Precipitated phosphates are insoluble in water, and although more valuable than even insoluble bone phosphate, yet these nice distinctions only serve to encourage doubtful transactions on the part of sharp dealers, and cause confusion in business transactions." And further on: "My advice to purchasers of mineral superphosphates is, and always has been, to buy mineral phosphates by the percentage of soluble phosphate at a fixed price per cent. ; and to take no account of the insoluble phosphates in such superphosphates, and to discard entirely what the maker or dealer may say about precipitated phosphates." I shall, in conclusion, only say that the views so well expressed in these extracts are in perfect accordance with those which I have long entertained.—JAMES A. CAMERON.

QUEEN'S COUNTY AGRICULTURAL SOCIETY.

ANALYSIS OF MANURES.

The following is Dr. Cameron's Report :

Dublin, 8th June, 1872.

I have the pleasure of forwarding to you my report on the composition of the twenty-two samples of artificial manures which you had sent to me for examination. On the whole, the samples are very good. Nos. 1, 7, 9, 11, 12, 13, 15, 16, 18, 21 and 22 are mineral superphosphates ; or at least if any of them have been prepared wholly or in part from bones, the latter must have been burnt, and converted into "bone ash." Nos. 3, 4, 5, 17, 19, and 20 are evidently prepared in great part from bones. Nos. 3 and 19 appear to be almost, if not solely, the products of the action of sulphuric acid upon bones. No 6 is richer in ammonia than ordinary bone superphosphates usually are. It is probably a special turnip manure. Nos. 8 and 14 are either special manures or "phospho-guanos"—most probably the latter. Both manures are very good. No. 2 sample consists of small crystalline masses, about the size of walnuts. It is evidently Peruvian guano ; and if the bulk be equal to the sample—which, I presume, is the case—the purchasers of this article may consider themselves extraordinarily fortunate. No. 10 appears to be a mixture of Peruvian guano with chalk and sand. It contains 47.74 per cent. of water, gypsum, chalk, and sand. It is not worth seven guineas per ton. The valuation which I have placed this year upon the more important ingredients of manures are as follows :

Ammonia.....	£100 0 0
Bi-phosphate of lime	30 0 0
Phosphate of lime	10 0 0
Alkaline salts.....	1 10 0
Sulphate of lime.....	1 10 0

I have ceased to place any value upon the "organic matter and combined water," as they are of little or no importance. I have increased the valuation of ammonia £20 per ton since last year. At present manufacturers pay from £20 to £22 per ton for sulphate of ammonia, which contains on the average 23.5 per cent. of ammonia. It is evident, therefore, that the

farmer cannot expect ammonia to be sold to him at less than £100 per ton. The prices of the phosphatic materials used by the manufacturers have gone up since last year ; but I have not increased the valuation of soluble phosphates this year, because, owing to competition and other causes, soluble phosphate of lime is procurable by the consumers as cheaply now as was the case last season. The insoluble phosphate in a superphosphate made solely from coprolites and similar minerals is of but trifling value to the farmer. I have, however, valued all the insoluble phosphate in the 22 samples of manure at the uniform rate of £10 per ton. If I did otherwise, it might happen that some of the phosphate of lime in the so-called mineral superphosphate might be bone-ash phosphate, which is of considerable value, though not equal to that in guano and bones. I may, however, mention that the total money value of the mineral superphosphates is, with but two or three exceptions, very slightly influenced by the value placed upon the insoluble phosphate. As for the soluble phosphates, their value is precisely the same, whether they are derived from bones, guanos, or minerals. During the season six samples of manures have been analysed for members at the usual reduced rates.—CHARLES A. CAMERON.

SCIENTIFIC INSTRUCTION.

A special meeting of the directors of the Highland and Agricultural Society was held at their chambers George IV. Bridge, Edinburgh ; Professor Wilson in the chair.

The following copy of the memorial adopted at last board meeting, and since forwarded to Mr. Milne Home, of Wedderburn, for presentation was read :—

To the Royal Commission on Scientific Instruction and the Advancement of Science, the memorial of the Highland and Agricultural Society of Scotland

Showeth,—That the Society represents upwards of four thousand of the principal proprietors, tenant-farmers, and scientific men of Scotland ; That one of the objects for which the Society was founded is the advancement of the science of agriculture, with which view the Society has, by means of prizes and money grants, endeavoured to encourage observations, experiments, and discoveries in other sciences connected with agriculture, such as chemistry, botany, geology, meteorology, and arboriculture ; That the Society has lately been inquiring into the system pursued in Germany for advancing the science of agriculture by means of experimental stations, where trials are made of new kinds of grasses, grain, and green crops, and also of the effect of new artificial manures on soils of different qualities ; That these stations consist of a few acres of ground and suitable offices attached, managed by a scientific superintendent and others to assist him ; That your memorialists much desire to see stations of the same kind formed in Scotland, being satisfied that observations and conclusions can be satisfactory only when the result of scientific care and precision ; That the Society strongly urge on the Government the expediency of establishing one or more of these stations in Scotland, or of advancing scientific research in any other manner which may appear to the commissioners to be more conducive to the progress of agriculture ; That, in the arrangements of any scheme the commissioners may recommend to her Majesty's Government, the Society will be glad to aid by giving all the information they have collected on the subject. And your memorialists will ever pray.—Signed in the name and by authority of the Highland and Agricultural Society of Scotland, JAMES E. NEWTON, Chairman of Directors' Meeting.

Edinburgh, 19th June, 1872.

FARMER'S ANALYTICAL ASSOCIATION.—The farmers in Turriff and Garioch districts of Aberdeenshire have formed an association for enabling them to secure an analysis of the artificial manures and feeding stuffs used by them. Mr. Watson, of Blackford, has been appointed president ; and Mr. Durno, Sunnyside, secretary.

SALE OF SHORTHORNS AT WEETING HALL, BRANDON, NORFOLK.

This sale, under the management of Mr. Strafford took place on Thursday, the 11th of July, and comprised about 37 pure-bred Shorthorns, the property of Mr. William Angerstein, being a selection from his herd. The interest of the proceedings was sadly marred by a most unhappy and sudden calamity. On the Tuesday afternoon, as Mr. Watson, the old and esteemed farm-bailiff, and William Ward, the herdsman, were making preparations for the sale-ring under the trees in the park, a severe storm arose, and Watson and Ward took shelter under a large sycamore. They were seated side by side under the second tree of the avenue, from which the hurdles were set out to the ring, when suddenly the lightning ripped the first tree from top to root, slightly struck the second, and killed Watson instantly on the spot. Ward was struck down also, and severely singed, but managed to crawl away to the yard. He appeared at the sale, walking lame, and still felt the severity of the shock. This dreadful visitation was the general topic of conversation as the company drew together, and it was some time before they went to view the various lots that were grazing in the paddocks, sacred but a few years since to the late General Angerstein's thoroughbreds. The cows were a fair good lot; two or three of them, especially one of the Ursulas and a Musical, were good animals; and among the heifers were several of great promise. Most of the calves were bulls, the produce of highly-priced cows purchased by Mr. Angerstein last year at the Killhow and Wateringbury sales. A sumptuous lunch was provided in a tent close by the ring, at which Mr. Angerstein himself presided, and who, when his own health was proposed by Mr. Fellowes, spoke in touching words of the great loss he had sustained in the sudden death of Mr. Watson. Rain fell during the morning, and it was very hot and sultry, when Mr. Strafford mounted his rostrum at two o'clock. A fine Collie dog walked at the head of Old Dame, the first cow (one of the Burghley Park breed), who was led round by the butcher. Mr. Everington, of East Dereham, got her at 29 gs. Mr. Jas. Ladds, well-known as a breeder thirty years ago, secured two animals bred at Kingscote, lot 2, for 30 gs., and lot 4 for 34 gs. Larkspur, a Fourth Duke of Thorndale cow, from a daughter of Sir Charles Knightley's Cambine, went for 65 gs. to Mr. G. Graham. Lot 5 Juliet was not brought forward, but Ursula 19th, one of the best animals sold, went to Mr. Sartoris for 72 gs. Mr. Samuda took the two Musicals, one at 50 gs., and the other at 81 gs., as more corner-stones for his new herd. Lot 8, Fantail 3rd, said to be a 150 gs. purchase last year, must have evidently sunk since then both in condition and price, for Mr. Larking got her now at 80 gs. Some young cows went from 28 to 33 gs. The two Duchesses of Brailes, heifers, bred from pure Knightley cows by Bates sires, kept up the reputation of Mr. Sheldon's herd. Mr. H. Sharpley got the younger, and probably the plainer of the two at 120 gs. Mr. Sheldon took the elder at 80 gs., though not safe in calf; and also bought the Florentia heifer at 60 gs. The first bull, Lord Wetherby, was not brought out; and the second one, Lord Collingham, a pure Bates sire, was reserved at 200 gs. The others were principally calves, and, though the biddings were languid, they sold well, two making 50 gs. and 40 gs. respectively, and the ten averaging nearly 30 gs.; though it must be admitted several of them were by fashionably-bred sires, that stand at a high service-fee. The 34 head sold averaged just upon 40 gs., and, considering the condition of the stock, only

a short time recovered from the foot-and-mouth disease, and the time and character of the sale, the average must be looked upon as fair and encouraging.

SALE OF SHORTHORNS AT ROXWELL, CHELMSFORD, ESSEX.—Mr. Tippler, whose herd Mr. Thornton brought to the hammer on Tuesday, July 9, had bred from the county stock for some years, as well as exhibited at the annual meetings, and the animals now offered comprised the whole of his small herd. Among them were a few lots bred by the Rev. G. Gilbert and Mr. Clear, of Maldon, Essex, and the lot taken altogether was a very useful collection of well-bred animals. Lots 3 and 5 were of the Towneley blood, the former a doubtful breeder, went at a trifle over beef price; the latter, Proud Duchess, dam of two bulls, went, not very dear, to Mr. Robinson, of Burton-on-Trent, at 65 gs. Lot 11, Countess Sander, a fine roan cow, made 61 gs.; and Duchess of Grafton Second, one of Mr. Clear's, went to Mr. G. Day, for 45 gs. Lot 17, Charming Girl, a red heifer, was also bought by Mr. Day for 36 gs., and a thick roan heifer with only three crosses of blood fetched 38 gs. (Mr. Baker). Lot 24, Cinnamon, a very good roan heifer-calf, highly commended at the Suffolk show, was purchased cheap enough by Mr. Chaplin for 46 gs., as she has all the make and shape, as well as the quality of a Royal winner. She was got by Cambridge Duke 3rd, a fine old red bull of the Cambridge Rose blood, and who was offered in his seventh year. Mr. Gerard Day got him very reasonably at 53 gs., for if he leave stock such as lots 24 and 32, he must be worth fully three times the money. Lot 32, a fine red bull-calf out of Proud Duchess, went to Mr. Stubbs for 40 gs. There was rather a dull sale for the yearling bulls; and some black pigs of the pure Suffolk breed made only fair prices, the best lot, a young hairy in-pig sow, going to Mr. Julius Arabin, for £7 5s. Towards the close of the sale the rain came down in torrents, which, doubtless had a slight effect on some of the prices. The average, however, all round for the 32 head was £35 6s. 9d.

SALE OF MR. T. WALKER'S SHORTHORN HERD,

AT CHAPEL HILL, BERKSWELL, ON JULY 3RD.

BY MR. JOHN THORNTON.

This herd had been gathered together during the last seven years, and when brought to the hammer comprised but thirty-one animals, six of which were bulls, with old Grand Duke 9th in his tenth year at their head. Some of the cows and heifers were of the fashionable Knightley and Charmer blood: the former having been obtained from Lord Penrhyn were of the Walnut tribe with a cross of Mr. Booth's Vanguard and Mr. Harvey Combe's Marmaduke; the latter from Mr. McIntosh's herd, when the first sale took place in 1867. Lot 5 of this blood was a grand-looking cow, and fetched, next to old Grand Duke, the best price of the day, going to Mr. H. De Vitre for 120 gs. There were several bidders, Mr. Sheldon of Brailes being the last against Mr. De Vitre. The cows as a whole were a very superior lot; if anything, better than the heifers. An attack of foot-and-mouth disease last autumn left several of these very late, and detracted from their value.

COWS AND HEIFERS.

Rosette, by Marmaduke (14897); dam Rosa Lee by Vanguard (10994).—Mr. R. H. Crabb, 47 gs.
Princess Royal 2nd, by Bridegroom (19341); dam Princess Royal by Guy Faux (12980).—Mr. J. Clutton, 51 gs.

Dahlia, by Star of the East (20896); dam Daisy Bud by Rubens (13642).—Mr. Watson, 31 gs.
 Lady Geneva, by Duke of Geneva (19614); dam La Cantatrice by King Arthur (13110).—Mr. J. Clutton, 53 gs.
 Charmer 3rd, by Grand Duke 4th (19874); dam Charmer by Mainstay (16490).—Mr. H. D. De Vitre, 120 gs.
 Rosette 2nd, by Grand Duke 9th (19879); dam Rosette by Marmaduke (14897).—Mr. H. Wale, 60 gs.
 Princess Royal 3rd, by Grand Duke 9th (19879); dam Princess Royal by Guy Faux (12980).—Mr. Watson, 28 gs.
 Bride Elect, by Second Duke of Cumberland (23735); dam Bridesmaid by Fourth Duke of Thorndale (17750).—Mr. G. C. Greenway, 60 gs.
 Caroline, by Grand Duke 9th (19879); dam Clarion by Wellington (21090).—Mr. R. Lloyd, 28 gs.
 Victoria, by Grand Duke 9th (19879); dam Annie by Prince of Saxe-Coburg (20576).—Mr. J. Ritchie, 40 gs.
 Olga, by Second Duke of Cumberland (23735); dam Princess Mary by Grand Duke 9th (19879).—Mr. Watson, 51 gs.
 Princess Alice, by Grand Duke 9th (19879); dam Princess Royal 2nd by Bridegroom (19341).—Mr. Watson, 36 gs.
 Dahlia 2nd, by Napoleon (29423); dam Dahlia by Star of the East (20896).—Mr. J. Clutton, 42 gs.
 Princess Helena, by Duke of Middleton (25986); dam Princess Royal 3rd by Grand Duke 9th (19879).—Mr. J. Clutton, 30 gs.
 Florence, by Grand Duke 9th (19879); dam Rosette by Marmaduke (14897).—Mr. G. Ashburner, 70 gs.
 Cameo, by Grand Duke 9th (19879); dam Choice by Hero of Oxford (18060).—Mr. Watson, 32 gs.
 Princess Adelaide, by Duke of Cambridge (25940); dam Princess Mary by Grand Duke 9th (19879).—Mr. C. H. Cock, 81 gs.
 Ballet Girl, by Grand Duke 9th (19879); dam Columbine by Colonel (14294).—Colonel Lane, 25 gs.
 Ruth, by Friponnier (26208); dam Rosette 3rd by Grand Duke 9th (19879).—Mr. T. W. Wright, 42 gs.
 Catherine, by Friponnier (26208); dam Caroline by Grand Duke 9th (19879).—Mr. C. A. Barnes, 24 gs.
 Princess Louise, by Grand Duke 9th (19879); dam Princess Royal 2nd by Bridegroom (19341).—Mr. Watson, 43 gs.
 Charmer 5th, by Lord Collingham (29089); dam Charmer 4th by Grand Duke 9th (19879).—Colonel Lane, 91 gs.
 Cordelia, by Friponnier (26208); dam Caroline by Grand Duke 9th (19879).—Mr. W. Nevett, 13 gs.
 Emily, by Friponnier (26208); dam Olga by 2nd Duke of Cumberland (23735).—Mr. J. B. Lythall, 40 gs.
 Princess Maud, by Friponnier (26208); dam Princess Alice by Grand Duke 9th (19879).—Mr. W. Nevett, 12½ gs.

BULLS.

Grand Duke 9th (19879); by Grand Duke 3rd (16182); dam Grand Duchess 5th by Prince Imperial (15095).—Mr. G. Ashburner, 155 gs.
 Lord Charmer, by Grand Duke 9th (19879); dam Charmer 3rd by Grand Duke 4th (19874).—Mr. J. Clutton, 72 gs.
 Lord Royal, by Grand Duke 9th (19879); dam Princess Royal 2nd by Bridegroom (19341).—Mr. J. B. Lythall, 64 gs.
 Lord Geneva, by Grand Duke 9th (19879); dam Lady Geneva by Duke of Geneva (19614).—Mr. J. R. Wynn, 25 gs.
 Lord Charles, by Friponnier (26208); dam Rosette 3rd by Grand Duke 9th (19879).—Mr. G. Darlinson, 23 gs.
 Lord John, by Grand Duke 9th (19879); dam Dahlia by Star of the East (20896).—Mr. Watson, 14 gs.

SUMMARY.

	£	s.	d.	£	s.	d.
25 Cows averaged.....	49	3	3	1,229	0	6
6 Bulls „	61	15	0	370	13	0
31 Head „	£51	12	0	£1,599	13	6

SALE OF THE REV. W. HOLT BEEVER'S SHORTHORNS,

AT PENCRAIG, ON THURSDAY, JULY 18th.

BY MR. J. THORNTON.

COWS AND HEIFERS.

Queen Mary, by Royal Butterfly 17th (22774).—Mr. J. R. Homfray, 41 gs.

Lady Love, by Frank (17874).—Mr. S. Washboro, 40 gs.
 Fifth Duchess of York, by Royal Butterfly 17th (22774).—Mr. J. J. Stone, 50 gs.
 [Her red bull-calf, by Broomstick (28099).—Mr. J. J. Stone, 7 gs.]
 Silence 4th, by Frank (17874).—Mr. G. Barton, 53 gs.
 Lady Culshaw, by Royal Butterfly 17th (22774).—Mr. H. D. De Vitre, 200 gs.
 Epornay, by Rose Butterfly (24993).—Mr. H. Theyer, 41 gs.
 Mary Blane, by Royal Butterfly 17th (22774).—Mr. J. R. Homfray, 38 gs.
 Lady Tortworth 2nd, by Royal Butterfly 17th (22774).—Sir E. Cockburn, Bart., 58 gs.
 Butterfly Duchess, by Royal Butterfly 17th (22774).—Mr. R. M. Knowles, 40 gs.
 White Frost, by Royal Butterfly 17th (22774).—Mr. J. Rolt, 35 gs.
 Sweet One, by Etoile du Nord (21710).—Mr. T. Woodburn, 37 gs.
 Star of the Stage, by Etoile du Nord (21710).—Mr. T. Woodburn, 42 gs.
 Rose of Wye, by Royal Butterfly 17th (22774).—Mr. H. D. De Vitre, 120 gs.
 Venture, by Northern Light (29449).—Mr. C. Bailey, 55 gs.
 Lesbian, by Royal Butterfly 17th (22774).—Mr. T. Woodburn, 33 gs.
 Siberia, by Etoile du Nord (21710).—Mr. C. Bailey, 37 gs.
 [Her roan bull-calf. —Mr. C. Bailey, 6 gs.]
 Mary Blane 2nd, by Towneley Wild Eyes (27674).—Mr. J. R. Homfray, 37 gs.
 [Her red and white cow-calf. —Mr. J. R. Homfray, 10 gs.]
 Borealis, by Etoile du Nord (21710).—Mr. R. M. Knowles, 34 gs.
 Pyrene, by Etoile du Nord (21710).—Mr. B. H. Allen, 28 gs.
 Not for Joe, by Hush (28883).—Mr. H. D. De Vitre, 120 gs.
 Silence 6th, by Etoile du Nord (21710).—Mr. G. Barton, 42 gs.
 Pretty Poll, by Towneley Wild Eyes (27674).—Mr. W. H. Collins, 24 gs.
 Sister Mary, by Towneley Wild Eyes (27674).—Mr. C. Bailey, 26 gs.
 Princess Louise, by Hush (28883).—Mr. J. Pulley, 48 gs.
 Creamy, by Hush (28883).—Mr. J. Roberts, 52 gs.
 Rose of Ross, by Hush (28883).—Mr. H. D. De Vitre, 120 gs.
 Rose of Hereford, by Hush (28883).—Mr. H. D. De Vitre, 120 gs.
 Albatross, by Hush (28883).—Mr. J. Roberts, 53 gs.
 Devotion, by Red Cross Knight. —Mr. J. Pulley, 51 gs.
 Darling, by Red Cross Knight. —Mr. R. M. Knowles, 20 gs.
 Cherry Ripe, by Red Cross Knight. —Mr. J. R. Homfray, 19 gs.
 Bloodshot, by Red Cross Knight. —Mr. S. T. Tregaskis, 16 gs.
 Miss Hogarth, by Red Cross Knight. —Mr. C. Bailey, 18 gs.
 Chian, by Red Cross Knight. —Mr. J. J. Stone, 17 gs.
 Falernian, by Red Cross Knight. —Mr. A. Garfit, 12 gs.
 Fidelity, by Red Cross Knight. —Mr. T. Tregaskis, 14 gs.

BULLS.

Broomstick (28099), by Etoile du Nord (21710).—Mr. J. France, 100 gs.
 Hogarth Again, by Royal Butterfly 17th (22774).—Mr. W. Milburn, 42 gs.
 Lord Tortworth, by Hush (28883).—Mr. B. H. Allen, 31 gs.
 Chablis, by Hush (28883).—Mr. C. Bailey, 26 gs.
 Another Hush, by Royal Butterfly 17th (22774).—Mr. T. Woodburn, 60 gs.
 Plaintive, by Red Cross Knight. —Mr. J. R. Homfray, 26 gs.
 Squeak, by Broomstick (28099).—Mr. J. Eyke, 11 gs.
 Triumph, by Red Cross Knight. —Mr. G. Garne, 26 gs.
 Not-so-Dusty, by Broomstick (28099).—Mr. H. Nevett, 7 gs.

SUMMARY.

	Average.	Total.
36 Cows	£52 18 2	£1,904 14 0
9 Bulls	38 7 8	345 9 0
45	£50 0 0	£2,250 3 0

SALE OF THE LATE MR. BLENKIRON'S STUD.

The Middle Park stud, embracing the mares, foals, and stallions, was dispersed during last week by Mr. Edmund Tattersall, the sale occupying four days. Mr. Blenkiron died in the autumn of last year, and during this summer the whole stud has realised as follows:—

	Gs.
June 15.—Yearlings, 58	17,105
July 6.—Yearlings, 43	5,030
Brood Mares and Foals:	
July 23.—67 lots	17,115
July 24.—70 lots	16,140
July 25.—67 lots	16,625
July 26.—57 lots	17,770
	67,650
Stallions.—12 lots	34,720
	124,505

The following are the extraordinary prices made by the stallions:

	Gs.
Amsterdam by The Flying Dutchman, out of Urania by Idle Boy.....Mr. Chaplin	400
Blair Athol by Stockwell, out of Blink Bonny by Melbourne.....New Stud Company	12,500
Breadalbane by Stockwell, out of Blink Bonny, by Melbourne.....Count Lehndorf	6,000
Gladiator by Monarque, out of Miss Gladiator by Gladiator.....Mr. Harcourt	7,000
King John by Kingston, out of Dinah by Clarion.....Mr. T. Pain	720
Lord Harewood by King John, out of Ada by Knight of St. George.....Mr. Sexton	250
Mandrake by Weatherbit, out of Mandragra by Rata-pas.....Mr. Weatherby	2,100
Marsyas by Orlando, out of Malibran by Whisker.....New Stud Company	750
Saunterer by Birdcatcher, out of Ennui by Bay Middleton.....Mr. T. Pain	2,100
Uncas by Stockwell, out of Prairie Bird by Touchstone.....German Stud Company	250
Victorious by Newminster, out of a Jeremy Diddler mare.....New Stud Company	2,000
Warlike by Weatherbit, out of Lucknow by Nutwith.....Mr. Chaplin	650

Lord Harewood was purchased by Mr. G. M. Sexton, the well-known Suffolk pig breeder, who had "a fancy" for King John, but who has a better and cheaper horse in the son. Mr. Blenkiron gave 5,000 gs. for Blair Athol, and 5,800 gs. for Gladiator.

AGRICULTURAL REPORT.

NORTH WALES.

"Make hay while the sun shines" is an old and familiar proverb, and, perhaps, never has its force before been more strikingly exemplified than in the greater part of the hay season now almost past. June was a wet month, and during the latter part of it we had heavy thunder showers, which in many other districts were accompanied with violent storms. Similar weather prevailed during the former part of the present month, though the first five or six days were beautifully fine, and enabled those who had cut in the middle of June, since when it had been in the fields alternately wet and dry, to get it into stacks, none of it we fear in first-rate order, and some of it much washed and impaired in quality. A large breadth was cut and saved during these five days quickly and easily without getting a drop of rain, but on the 6th the clouds again opened, and on the following day it rained almost incessantly from morning till night. Showers fell at different times during the following week; but fortunately we had long interludes of dry breezy weather, which quickly altered the condition of the saturated grass, and on the 12th a good deal was carted. On the 13th it commenced raining again, and operations were

quite suspended after eleven o'clock in the morning. Since then we have had magnificent weather, from which our upland and mountain farmers, who are always two or three weeks later than those in the vales, have greatly profited as they have had an opportunity of getting together the bulk of their crop in fine order, and without cessation. Everywhere the swathe has been heavy, and a good provision is made for winter. Wages for the hay harvest have been very high, viz., from 18s. to 20s. per week, with board, or from 3s. 6d. to 4s. 6d. per day without, and at these prices even have been scarce. Our labouring population are earning more now than they ever did before. They are not certainly proverbial for thrift or carefulness, but in these respects we think our labourers will bear comparison with those in most other parts. Habits of this nature are encouraged here by the wholesome and commendable practice pursued by many landowners of letting their cottage tenants wherever practicable a few acres of grass land to keep a cow. On one large estate in this county it is a rule to do this, and it is attended with the best results. For many reasons, which we cannot enter into in a report of this kind, we consider this one of the best ways of really bettering the labourer's condition. We have in common with the rest of the kingdom an abundance of grass, and store stock has been realising enormous prices. Our breeders were never before so well remunerated for their produce. Sheep are just as high as cattle, and horses fetch anything within reason one chooses to ask. Turning to grain crops, we have prospects of a bountiful harvest. Oats, our staple, look as well as can be wished; barley, too, should the weather be favourable, bids fair to be a good crop, though at one time it looked yellow and sickly from the cold and frost of the early summer. Wheat is various, some fields have every appearance of yielding well, whilst in others the plant is thin in the ground. Although the root-crop was sown late, with the land in anything but good order, the young plants made a good and rapid start, which has never been checked. The difficulty has been to keep the weeds under, which have grown apace, and when hoed they have struck root again from the continued moisture and absence of sun. We have had now, however, ten days of the finest possible weather for extirpating all these nuisances. Potatoes have a splendid appearance, but we fear disease is lurking around; we have already seen some in our own garden which were attacked about ten days since, and have succumbed rapidly, the tubers being already affected. Vegetables generally are abundant, peas prolific, though in one or two instances we have seen failures in this latter crop from some inexplicable cause; the stems have turned yellow, and soon began to wither, and on examining the roots they were found quite rotten. Apples and plums are very scarce, and indeed most kinds of fruit, save gooseberries; strawberries and currants are a scanty crop.—July 24.

AGRICULTURAL INTELLIGENCE, FAIRS, &c.

BLANDFORD.—Mr. Fookes' annual sale of Down rams took place on Saturday week. Mr. Ensor, of Dorchester, officiated. Seventy-six rams were offered, Lots 1 to 10 were two-tooths for latching, and made from 6 to 18 guineas each. Mr. Paul hired at 8 guineas. Lots 11 to 20 were two-tooths to be sold, and realised from 5½ to 7½ guineas. Lots 21 to 30 were two-tooths on hire, and they went at from 5½ to 9½ guineas, Mr. Udall taking one at the top figure, Mr. Harding giving 6 guineas. Lots 31 to 40 were four-tooths, and let at from 5½ to 14 guineas, Mr. Mayo giving the highest price. Lots 46 to 50 ranged at 7½ guineas; and lots 51 to 59, 7½ to 26 guineas, Mr. Luckham giving the top price, and taking another 16½ guineas; Mr. Scutt hired at 11 guineas. Lots 60 to 71 were for sale, four-tooths and six-tooths, and brought from 5½ to 16 guineas; and lots 72 to 76 let at from 10 to 20 guineas, Mr. J. Ford and Mr. Lawrence both hiring at 20 guineas; Mr. Cave gave 10 guineas; Mr. Brown, 11½ guineas, &c. The wool fair itself did not commence till late in the evening; the number of packs pitched was small, and but little was sold. Prices were, for Southdown 1s. 10d., Dorset 1s. 11d. Mr. W. Hillyer, of Blandford, was the largest buyer. The market was not over until 11.

THE BIDDENHAM OXFORDS.—This ram sale came off on Friday at Biddenham, near Bedford, when Mr. Trafford,

of Euston-square, disposed of about 50 Oxfordshire Down shearing rams, bred by Mr. Charles Howard. There was a large company of buyers from different parts of the country, and the bidding was very spirited; many of the sheep made over twenty guineas each. Mr. Doig gave 26½ guineas for a ram which had won first prize at the Bedfordshire show the previous day. Several were also bought for Germany. The whole were disposed of for an average of £14 a-head.

MR. LANE'S COTSWOLDS.—The first Cotswold ram sale of the season was held on Thursday, at Mr. W. Lane's, Broadfield, Northleach. There was a large company, and the biddings were spirited. Fifty-two sheep were sold, and made the high average of £25 17s. 3d.

BAT AND BALL FAIR.—This Weald of Sussex fair for sheep and lambs was held in the Fair Field on Tuesday last, and was largely attended by both sellers and buyers. The number penned was something over 10,000, and most of both sheep and lambs were in fair condition. The trade in the earlier part of the morning was brisk, and prices showed no diminution from the high rates at St. John's and Findon; towards the afternoon, however, those that were unsold were not so eagerly inquired after, and as the sellers were by no means disposed to give way, transactions became rather languid. But before business was over most of the lots changed hands, and few were taken home again. The highest prices of which we heard were Mr. G. Woodhams, Chilverbridge, tegs 63s.; Mr. E. Deadman, Chiddingfold, lambs 41s. 6d.; Mr. Jenner, Marlgreen, lambs 41s.; the latter lot, we heard, was resold by Mr. R. Paxton, at 42s. The supply of horned stock was about as usual, and good things were sold at good round figures. We may mention here that harvest has already commenced in the neighbourhood of Lewes, and that a fair average crop is promised. The following will show the average for the last five years:

Prices.				
	No. Penned.	Sheep.	Lambs.	
1868	14,500 ..	25s. to 30s.	10s. to 22s.	
1869	15,500 ..	30s. to 41s.	10s. to 28s.	
1870	18,800 ..	30s. to 40s.	11s. to 23s.	
1871	8,000 ..	38s. to 54s.	15s. to 34s.	
1872	10,300 ..	47s. to 63s.	21s. to 42s.	

CHERRY FAIR.—This fair took place on Wednesday and Thursday. There was a small show of cattle in the fair ground, and many of them were of an inferior description. New milch cows realised from 20 to 30 guineas; yearling heifers and steers from 10 to 13 guineas. The horse fair was very poor indeed. Mr. R. Tompkins offered 140 horses for sale on Wednesday, and 95 on Thursday, the majority of which were sold. A large company was present, and the trade was very brisk for good horses. The best description of cart horses made from 50 to 80 guineas; farm horses, from 20 to 45 guineas; carriage horses from 30 to 80 guineas; cobs, from 20 to 40 guineas, and ponies from 10 to 80 guineas.

LANGHOLM LAMB AND WOOL FAIR.—The show of stock at this market was the smallest that has been seen here for many years, and comprised half-breds, Cheviots, and crosses. There was a good attendance of farmers and dealers. Prices of all kinds of lambs were up from 4s. 6d. to 7s. on last year's market. Correct quotations were difficult to get, but the following will show the prices generally going: Half-breds, Terrona, 38s.; Brockwoodles, 36s. Cheviot, Effigill 20s. 6d., Glendiven (tops) 19s. 6d. and (seconds) 13s. 6d., Carlesgill 19s., Glendinning 18s. 6d. There was not much business done in the wool market, farmers not being inclined to accept the prices offered by manufacturers and staplers, in the expectation that better prices would shortly be obtained, while the downward tendency of the English markets deterred buyers from giving the prices asked.

HOP MARKET.

BOROUGH, MONDAY, July 29.—The improvement in the growing crop noticed in our last has been maintained, and is now sufficiently assured to lead us to expect a good average yield. The small business done in new hops during the week has been at reduced rates. The reports from the Continent are very similar to our own.

Mid and East Kent.....	£10 10	£13 12	£15 15
Weald of Kent	7 0	8 10	9 0
Sussex	7 0	7 15	8 8
Farnham and country ..	11 11	13 13	—

YEARLINGS.

Mid and East Kent.....	£3 0	£3 15	£5 0
Weald of Kent	3 0	3 10	4 15
Sussex	2 16	3 10	4 10
Farnham and country ...	—	6 0	7 0
Olds	1 0	1 5	1 10

CANTERBURY HOP MARKET, (Saturday last.)—The week has been favourable for the development of the bine, the weather having been forcing with some much needed rain; some of the forward sorts are coming into hop. There were various opinions expressed to-day as to the probable amount of the crop, but an average was the most prevalent: a better inquiry for 1870's.

WORCESTER HOP MARKET, (Saturday last.)—There is little or nothing doing on our market to-day, the trade being entirely of a retail character. Planters' reports generally are again more favourable, but we can only grow a very small crop in this district under the best circumstances.

HOP PROSPECTS.

MAIDSTONE.—During the past week the bine has continued its satisfactory progress, and the hopes of a good crop have grown every day stronger. There is a slight increase of vermin in some pieces.—**BRENCHLEY:** The bine is looking well, but we wait rain.—**WROTHAM:** In this neighbourhood the bine is very promising.—**EAST PECKHAM:** Hops are going on very favourably here. No vermin worth complaint.—**EAST FARLEIGH:** Are sorry to report an increase of vermin here, otherwise hops are looking splendid.—**STAPLEHURST:** Bine continues to make good progress; rain wanted though.—**YALDING:** The hops still continue to progress satisfactorily; and there is every hope of a first class crop.—**MARDEN:** Nothing to complain of, excepting too much heat.—**NETTLESTEAD:** Are pleased to report that hops continue to go on nicely.—**BEARSTEAD:** Hops looking splendid as a rule; rain is asked for by some.—**HAWKHURST:** Our hop gardens continue to progress very satisfactorily. They are fast coming into burr, but not entirely free from vermin. A fair crop is anticipated.—**OTFORD:** The bine looks as well as we can wish, and is coming into burr. Should there be no drawback, the gather will be very large.—**NORTHAM:** Bine generally looking well and coming into burr, excepting few gardens which are turning yellow. We are not quite free from vermin.—**WEST HOATHLY:** Our gardens are looking exceedingly well; free from blight. There is every prospect of a good crop.—**BRIGHTLING:** Our hops are looking well. Those who found theirs a little yellow at the bottom consequent on too much wet in their early days, have found a sufficient remedy on the application of guano.—**RYE AND PLAYDEN:** The hops are fast coming into burr, and those who are well up in such matters estimate a good and very early crop. One gentleman predicts that there will be a pocket of new hops in the Borough by the middle of August.—**EAST MALLING:** The bine in this parish is very strong, too much. A large increase of vermin. Honey-dew and mould rapidly spreading.—**WEST MALLING:** The bine has made good progress. A fair bine. Red spider is spreading, injuring our prospects. Some vermin.—**WATERINGBURY:** The bine good. Vermin increasing rapidly.—**RYARSH:** The bine still growing and vermin.—**COMP LEYBOURNE:** The bine slack and fine. A great many acres cannot produce more than a pocket per acre.—**OFFHAM:** The best cultivated grounds are good, many very slack and cannot do much. A sprinkling of vermin still clings to the fickle plant.—**ARPINGTON:** The Golding bine good; the grape slack and yellow. Vermin on the young shoots.—**BURWASH:** Progressing favourably and forward sorts coming nicely into burr, and although in some pieces there is still a little vermin and some mould, and in some others yellowness and slackness of bine, we have some very good gardens, which on the whole look promising, and hope to get quite up to an average crop.—**BUXTED:** The bine still grows very fast and we have a very good prospect of fair crop, we have no vermin of any account.—**HEADCORN:** The hops here have grown very fast during the past week, and are looking well for a crop. Wheat harvest will begin here on the 25th, and be general 29th.—**WADHURST:** Very satisfactory; the copious rain of this morning was most welcome; in some places they were looking yellow.—**QUAKER'S HALL:** As good as can be.—**BLACK HALL:** Improving fast.—**FULLER STREET:** Cannot be doing better.—**SEAL**

CHART: Very good generally; the once Larch lands now under hop cultivation by the Hon. Monson and Horace Wilkinson show in bold relief what good cultivation will do.—**KEMSING:** Promising perhaps better than for many years for crop; some of the gardens might be in a "cleaner" condition, but perhaps the dripping season will serve for an excuse.—**UNDER-RIVER:** In the clay bottoms here the cold spring shows its effects in shortness of bine. On the hassock side banks better culture is deserving, excepting "Black Charles," where all is clean and good.—**WESTERHAM AND THE VALE OF HOLMSDALE:** In well-farmed gardens the bine is making satisfactory progress, but there are many pieces not doing much, and therefore the crop will be a partial one; the Goldings are doing best, those at "Dunsdale" looking well.—**WARBLETON:** We are fast coming into burr, and looking well in most places.—*Sussex Express.*

HEREFORDSHIRE AND WORCESTERSHIRE.

HEREFORD: Thursday last was St. James's day, and in the olden time it was said that when he has come and gone "there may be hops or there may be none." Well, the Saint's day has both come and gone, and we really think there may yet be something of a crop of hops, notwithstanding the sad blight of our yards nine or ten days ago. It is unquestionable that the scorching heat made wholesale havoc of the vermin, and that young shoots are now striking out vigorously. The smart showers, too, have much cleared the bine and leaves; and some of our most experienced growers have hopes that there will yet be a smart sprinkling of hops. However, next week we shall probably be able to speak with more certainty; at present the plantations have unquestionably made a start in the way of improvement.—**BROMYARD:** In plantations where the blight has not attacked the bine there is great improvement since the late hot and sultry weather set in, and here some good hops may be grown; but in other situations where the hops have been blighted, although the hot weather has had a beneficial effect on them, the season has too far advanced to admit of their growing any hops, and between here and Worcester they are much worse than nearer Bromyard.—**BOSBURY:** The blight has decreased very much during the last few days, and the young shoots are now comparatively free. But many hop-yards present only an average of bare poles. In some few cases the burr has appeared. What blight that remains upon the leaves is dying fast. But unfortunately in too many plantations its work of destruction is complete.—**DOCKLOW:** The hops in this neighbourhood are improved a little within the last few days. Still the blight follows the young shoots. The bine is very short; consequently there cannot be many grown this year.—**DINEDOR:** The plants are improving considerably, and in some grounds coming into burr fast; but we still hear some grumbling, especially where the land is poor. The general opinion is that there will be a crop, although not a very large one.—**DILWYN:** The hops have much improved within the last fortnight, the vermin and blight having left them; so that there is a chance of most yards growing a sprinkling.—**FELTON:** There is some improvement in the hop plant since our last report. The little bine we have is throwing out branches, but the result must be a very light produce.—**LEDBURY:** There is a slight improvement in the hops this week, more particularly where there is strength of bine; but where the bine is weak the hop shoots are not able to contend with the blight, which still continues. The weather at night has, we believe, been favourable.—**STOKE LACEY:** The dry hot weather of the past few days has caused those grounds which were badly blighted to throw out fresh shoots, and those grounds which were not so bad have made considerable improvement.—**TARRINGTON:** The hops have much improved during the last week, but it will be impossible to grow a good crop, except where there is plenty of bine and cultivation good.—**WITHINGTON:** The weather for the last week has been all that could be desired for the hops. The scorching sun has destroyed most of the green fly and lice, and the stench from them in the dew of the evening is dreadful where the blight was heavy. The plant is making an effort to throw out a few fresh shoots, which, however, can grow but few hops with a continuance of this fine weather.—**WORCESTER:** Mr. Edwin Leonard reports: "Nearly all the planters in this district give a most discouraging account of the state of their hops. The plantations still continue to swarm with all kinds of vermin. Where washing was commenced early

and thoroughly persevered in, with good cultivation, there is every appearance of growing a fair crop, and the expense will be amply repaid this season like it was in 1871, to the few planters who gave it a fair trial. The general opinion seems to be against one-third of an average crop."—*Hereford Times.*

ENGLISH WOOL MARKET.

LONDON, MONDAY, July 29.—The Wool market has been steadier in tone, but the actual business concluded has been very moderate; prices however are firm, sales not being pressed.

CURRENT PRICES OF ENGLISH WOOL.		s. d.	s. d.
FLEECES—Southdown hogs.....	per lb.	1 9½	1 10½
Half-bred ditto		1 10	1 11
Kent fleeces		1 11	2 0
Southdown ewes and welshers ...		1 9	1 10
Leicester ditto		1 11	2 0
SORTS—Clothing, picklock			
Prime		1 7	1 8
Choice		1 4	1 5
Super		1 3	1 3½
Combing, wether mat		1 2	1 2½
Picklock		1 11	1 11½
Common		1 7½	1 8
Hog matching		1 6	1 7½
Picklock matching		1 11½	2 0½
Super ditto		1 7½	1 8
		1 6	1 7½

BRADFORD WOOL MARKET, (Thursday last.)—Nothing has arisen since our last report to impart animation to our market. There is an exceedingly slow demand from consumers, who are themselves very destitute of orders, and the transactions which take place are little more than nominal. Notwithstanding this state of things, and its long continuance, the value of wool is not materially affected. So little business is passing that prices are not thoroughly tested, but there is no apparent giving way. There may be slight indications of softening in some quarters, but the wonder is they are so few. Nothing is more remarkable than the general firmness with which wool is bearing the test of long depression. If the weight of the new clip were on this market, as is usual at this time of the year, this firmness would be impossible. Fortunately for Bradford much of it is still in the farmers' hands. We learn that country rates are a shade easier at last, and this may account partly for the slightly lower prices which some staplers have accepted here. There is no pressure to sell, however, and most staplers are still holding on for full rates.

DONCASTER WOOL MARKET, (Saturday last.)—About 50 sheets of wool were brought to the scales this morning, which, with what remained from last Saturday, made a total supply of about 80 sheets. A pretty fair attendance of buyers, and a good disposition to do business was met with; consequently, most of what was on offer was bought up before the close of the market, at firm rates, all-hogg making 29s. 6d. to 31s., two-thirds hogg 28s. 6d. to 29s., half-hogg 27s. to 28s., and all-ewe 25s. to 26s. per stone.

HAWICK WOOL FAIR.—A slower or duller market has not been experienced for many years. The downward tendency of the markets for home wools during the last ten days, and the rise in the rate of discount, with the prospect of a further advance, made buyers cautious, and it was late in the day before a single sale was made. The difference between what buyers were willing to give and sellers to accept was about 2s. per stone, and in the transactions which ultimately took place the advance on last year's prices ranged from 5s. to 7s., but generally about 6s. per stone. Half-bred wools sold slightly under the rates of recent markets.

JEDBURGH (RINK) WOOL FAIR.—This important wool fair was held at Jedburgh on Saturday week. There was a large attendance both of buyers and sellers. The market was upon the whole very stiff, buyers not being inclined to give the high prices asked. At first sales were effected with considerable difficulty, but a large amount of wool changed hands before the close. It was with extreme difficulty that quotations could be procured, from the reticence of the dealers, but the following may be relied on: Half-bred 48s. to 49s., hogg 48s. 6d., crossed hogs 50s., quarter-hogg 48s., three hogg to one ewe 52s., one-third hogg 48s., Cheviot with a little half-bred 47s., the Hethpool clip (Cheviot) 46s. 6d., half-faced (washed) 29s. 6d., Cheviot 46s. 6d., half hogg and half ewe at 50s., half-bred (one-third hogg) 49s.

LEWES WOOL FAIR.—This fair was held on Saturday

in the Corn Exchange, and will long be remembered as one of the most extraordinary that has yet taken place here, from the fact that not a single fleece was sold, although the chairman (Mr. Darby) used his utmost endeavours to facilitate business and bring buyers and sellers together.

LONDON WOOL SALES.—Monday: 7,400 bales were catalogued to-day, principally Sydney and Fort Phillip, with about 1,400 bales New Zealand. The demand continues very good. The French buyers are purchasing freely, whilst the home trade continues to operate with good spirit.—Tuesday: The market was firm, at previous values. To-day's sale comprised: 2,054 bales Adelaide, 1,597 bales Cape, 1,082 bales Sydney and Queensland, 967 bales New Zealand, 744 bales Fort Phillip, and 2 bales German.—Wednesday: To-day's catalogue comprised: 2,334 bales Fort Phillip, 927 bales Sydney, 768 bales New Zealand, 309 bales Cape, 223 bales Adelaide, 179 bales Australian, 131 bales Tasmanian, and 17 bales suedries. Good attendance, and market firm.—Thursday: 4,634 bales were offered, comprising 1,656 bales Fort Phillip, 1,437 bales Sydney and Queensland, 753 bales Adelaide, 658 bales Cape, 65 bales New Zealand, 65 bales Van Dieman's. The market remains steady at previous rates.—Friday: To-day's sales comprised: 2,634 bales New South Wales, 2,600 bales New Zealand, 1,210 bales Victoria, 488 bales Tasmanian, 229 bales Adelaide, and 2 bales Jamaica. There was a fair attendance and bidding steady, at about late values. Saturday: To-day's catalogue comprised a very choice selection of Fort Phillip combing fleeces, which excited keen competition. About 1,600 bales of Sydney were also included, and were taken mostly by the French buyers. The sales will terminate on Tuesday next.

LIVERPOOL WOOL SALES.—Tuesday: The East India wool sales opened to-day with a fair attendance of buyers, and the closing rates of last sales were fully maintained for all kinds, except good wools, which are 5 per cent. dearer.—Wednesday: The auctions progress steadily, with an occasional slight advance on the opening rate of yesterday, cardings being especially well competed for.—Thursday: Competition has been animated to-day, and all classes of wool have been freely bid for. The advance in prices is 5 to 10 per cent. on the closing rates of last sales for all kinds. Carding and blanket wools were in good request.—Friday: The East India wool sales closed this evening with good spirit, at the advanced prices obtained yesterday.

AN IMPLEMENT EXHIBITION IN HOLLAND.

[Extract of a Letter from Mr. Amersfoordt, of Lake Haarlem, Holland, to Mr. W. A. Gibbs, of Gilwell, Essex.]

It is in 1872 a period of eighteen years since I established a farm in the then recently-drained Lake of Haarlem. During this period I collected and used all the best agricultural instruments as they were successively proved serviceable in other countries. Having frequently heard it said, and seeing it repeated in the papers, that I had whole barns filled with such implements which were only fit for show, and never used in the fields, I thought it would effectually contradict such reports, to invite the members of the agricultural societies and other agricultural celebrities to visit me and see these various modes of saving labour and increasing the produce of the earth at actual work. About four thousand of my countrymen and many leading agriculturists from other parts of the world accepted my invitation.

On the morning of July 4 I showed a powerful portable engine driving a thrashing machine, a Dutch fan or winnowing mill (remarkable for its simplicity), a straw cutter, root pulper, a circular saw, a corn mill, an oat bruiser, and other implements. After that I sent Fowler's 14-horse engine to the fields, where it did good work with a four-furrow plough, a Cotgreave's plough, cultivator, and harrow; to other fields I then sent horses to show mowing machines, hay-makers, hay-rakes, and

various other ploughs, scarifiers, drills, horse-hoes, &c. Last, but not least, came your hay-drying machine, proving the great attraction of the day. It was arranged with a horse-gear of Crosskill's, which I had employed during 17 years; the wood having suffered much by this long service. I repaired it during last winter in my own carpenter's shop, the iron parts proved as strong and workable as the day they came in Holland.

I took great pains in adjusting this mill according to my best notions, fixed it quite horizontally and strongly, with so good success, that although it had to drive an intermediate action of Bentall, I was able to drive the four-horses' mill with one hand, and it would even run some seconds after I had left the work. I was rewarded for my trouble, because, although you, the inventor, supposed that for driving the drying fan 700 revolutions in a minute, three horses would be necessary, I could perform the task with one young ox, relieved after an hour's work by one ordinary horse (a roadster).

It had been announced by the Agricultural Society that grass could be made into hay by this machine in ten minutes. We had spared for this purpose a beautiful crop of Timothy grass and clover in the immediate neighbourhood of the hay-dryer. It was cut by a workman with a scythe before the eyes of the assembled crowd. On the day before we had been able to dry it satisfactorily in exactly six minutes. The people now, of course, hindered the men a little in their work; but it was done in ten minutes as aforesaid; and I saw with satisfaction a great many farmers taking samples of the beautiful green, but perfectly dry hay to show at home to their friends.

After this feat was accomplished, we showed to the public the real work for which the hay-dryer is intended—taking hay that was half dry and drying it in three minutes ready for the stack, as will be necessary on wet days, as it was used frequently on my farm in the autumn of 1871, which proved itself very rainy. After St. Margaret's Day, the Saint who accomplishes in Holland the task ascribed in England to St. Swithin, I have no doubt that many a cart of aftermath will have to pass through the artificial process of drying; but I have not the slightest doubt that we will be able by this system to save a great deal of useful grass that would be lost without it.

A NEW GRAIN-DRYING MACHINE.—To meet the evil of dampness in grain of all kinds, an apparatus has been invented by a Greek gentleman, formerly Greek Consul in Wallachia, and now an agricultural engineer, with whom is now associated the firm of Messrs. Adutt, Finzi, and Co., of 24, Mark-lane. This consists of a perpendicular cylinder of metal or other suitable material, with eight (more or less) horizontal cylinders or pipes of like material, all connected with and branching from the lower end of the upright cylinder. All these are perforated with small holes for the admission of air into the body of the grain, without allowing the grain itself to pass. A series of small tubes are placed in the inside of the large ones, for the return of the confined damp air, and to keep up the circulation. The apparatus is placed in the ship, warehouse, or stack, when about to be loaded or formed, the upright tube being in sections, so as to be capable of lengthening as the height of the ship's hold or the granary requires. The upper end is projected into the air, having attached to it a cowl or ventilator, acted upon by the wind, so as to force the fresh air down the tube, and, by the small holes therein, into and through the whole mass of the grain, and thus replacing with dry air the damp, which is supposed to be forced into the smaller tube, and conveyed by it into the atmosphere. The proportion between the large tubes and the small return-tubes is as $3\frac{1}{2}$ to 12 inches, and it takes about twenty-four hours to expel the damp from the hold of a ship or granary, leaving the grain perfectly dry and sweet. With regard to its application on the farm in the case of wet weather, when it is scarcely

possible to stack the corn or hay in good condition (as is stated of last season's hay harvest), there is every promise of its efficiency. The apparatus used for hay-ricks is formed without the tubes which branch from the main cylinder, and consists of the main tube only—the outer perforated, and the inner tube to draw off the foul air. The top is a self-acting, rotating Archimedean screw, covered with a cap; and it works by the wind with the greatest ease. The advantage secured in constructing the apparatus in this form is that it can be withdrawn from the stack when the drying process has been completed, and used for the same purpose in another stack.

THE CARE OF STOCK ON TRANSIT.—At the Small-Debt Court, Leith, Sheriff Hamilton presiding, James Lawrie, butcher, Leith, sued the North British Railway Company for £10 16s., being the value of three sheep at £3 12s. each, which were killed and destroyed by pigs while in transit between Haddington and Leith on the 11th March last. Mr. Wood, for the company, stated that the pursuer had delivered ninety-four sheep to the company at Haddington Station to be conveyed to Leith, and they were placed into three waggons by the officials and pursuer's servants some time before the train started. While standing at the cattle-loading bank, which is on the opposite side of the line, and some distance from the booking-office, Mr. Moffat, grocer and pig-dealer, Ormiston, brought six large pigs to the station for transmission to Leith, and there being no waggon at the station at the time to suit his purpose, he, without authority from either the company's servants or the pursuer, put two of his pigs into each of the three waggons amongst Mr. Lawrie's sheep. The consequence was that the pigs attacked the sheep during the transit, killing eight and injuring several others, resulting in a

claim being made against the company for about £26; but, with the view of saving costs, it had been arranged to test the company's liability in the Small-Debt Court. Mr. Wood said that the defenders were no doubt liable in law to the pursuer, there being an action of relief against Moffat which they intended raising in the Sheriff Court at Haddington; but he maintained that the company were not liable for more than £2 per sheep, upon the ground that the Acts 17 and 18 Vic., cap. 31, sec. 7, limited the company's liability for loss of or injury to a sheep to £2 per head, unless the value was declared, and increased rate of carriage paid by sender at the time of delivery to the company, which was not done in the present case. Mr. Wood, in support of his contention, quoted *Brown on Law of Carriers*, p. 11; *Hinton v. Dibden*, decided in Court of Queen's Bench, Rep. 22, B. 646; *Hodgeman v. Midland Railway Company*, decided in Court of Queen's Bench, 13th June 1861—cases which showed that a carrier protected by statute was not liable for more than £2 each even although the loss or injury was caused through gross negligence. Mr. Smith, solicitor, Leith, appeared for the pursuer. He admitted the statement made by Mr. Wood to be accurate, but contended that the statute quoted did not apply, inasmuch as the fault referred to in the statute was the act of Mr. Moffat, who was not a servant of the company, and therefore the latter were liable for a breach of contract, as the section founded on could only be pleaded when the fault occurred by the company or its servants. The Sheriff held that, in the circumstances stated, the Act applied, and that the company were only liable to pay £2 for each sheep, and in respect that they had tendered that sum he found no expenses due.

REVIEW OF THE CORN TRADE DURING THE PAST MONTH.

The month of July, like most of its predecessors, this year has been extraordinary as to the weather. June closed with thunderstorms, and an unsettled aspect. The opening of the present month was fine and did much to abate the backwardness of the season, but the second week brought fearful storms and floods, chiefly in Yorkshire, Lancashire, and Cambridgeshire, doing immense local damage, and though for the most part it was fine, subsequently fresh storms and floods in some localities renewed the mischief, though to a less extent; but, as a whole, the increased heat has much forwarded the ripening of the crops. There will, however, be a great difference in the time of gathering, as the forward pieces may be ready in a fortnight, while some portions have only recently been in bloom. Great difference of opinion exists as to the probable yield of wheat, but the most sanguine scarcely expect an average, and some very much less, and we confess to some serious misgivings. In some of the best farmed lands the ears have been found to be very defective, and after the heavy showers and hail we have had in the blooming time, and some smart touches of frost in June, it would be strange if these trials should not leave their mark. As respects the hay crop, though satisfactory in bulk, much has been discoloured by the showers, and delay in consequence of the difficulty in procuring steady labour. But the crops of spring corn, in spite of some complaints of barley, promise generally to turn out well. Prices of course have fluctuated with the weather; but the state of the averages show very little change. Stocks are evidently getting low, both in the country and in granaries foreign, and these latter are not likely to be overdone by fresh arrivals before harvest, for there is a general deficiency throughout Europe, Odessa excepted, where the quality is poor. At present rates there is no

probability that speculation will be active, and markets left to themselves, with fair weather are generally in favour of buyers. Millers knowing this, have lately been very reserved, and whatever be the quality of our future supplies, we think the quantity will be equal to our wants, up to next harvest. Great expectations have lately been raised about France for the coming season as an exporting country, and a power to ship three million quarters has been reckoned on; but later accounts thence treat these prospects as delusive, for the present gatherings in the south as well as in Italy, have proved short, and recent storms have done general harm, while the centre and north will be as late as several parts of England. The American produce seems only likely to be bountiful in California, but there the new crop is already appearing fine in quality, and prices declining. As a whole the world's harvest seems likely to be equal to the wants of its inhabitants, and though lower prices for delivery are generally quoted, we do not with the finest weather expect anything like symptoms of depression. The following rates were quoted recently at the places named: best white wheat at Paris, 61s., red, 57s.; white at Bordeaux, 56s.; red at Marseilles, 55s.; at Rotterdam, white Zealand, 57s.; red at Courtrai, 61s.; at Brussels and Louvain 62s., at Hambro' 61s., white at Danzig, 56s.; red at Petersburg, 46s. 9d.; soft at Algiers, 56s.; Ghirka at Odessa, 43s.; at Adelaide, white 48s. per qr., at San Francisco 33s. 9d. per 500 lbs.; at New York, spring red at 47s. 1d. per 480 lbs.

The first Monday in Mark-lane opened on small supplies of English wheat, with good arrivals from abroad. The show of fresh samples from Kent and Essex was limited; yet though the weather had become more unsettled there was no rally in English qualities, which

only went off slowly at the previous Monday's rates. Foreign was not so dull as English, the arrivals being nearly all from Petersburg, and there was a firm trade in the better qualities. Floating cargoes were quiet, and the turn lower to sell. The country trade generally had a tendency downwards, and several markets were 1s. cheaper, Liverpool giving way 3d. per cental on Tuesday, and another 3d. on Friday, making about 2s. 6d. per qr. for the week. The Scotch markets were also quiet, and rather easier. At Dublin business was also in calm, and wheat 6d. cheaper, but other grain was without quotable change.

On the second Monday there was a reduced supply of English wheat, but the foreign arrivals were largely increased. The weather having improved, though still doubtful, with very little exhibited on the Essex and Kentish stands, factors found they could not establish any advance on the previous rates, at which sales only proceeded slowly. The foreign trade with the good arrivals was limited, and in some cases rather less money was accepted. Though the arrivals off the coast were moderate sales could only be made at 1s. reduction from the quotations of the previous Monday. Though some of the country markets this week were firm, and even dearer, others were unaltered, and several quoted lower rates. Sleaford was 1s. cheaper, Thirsk 1s. to 2s. down, and Gainsborough for secondary qualities 2s. lower. Liverpool was 1d. to 2d. higher per cental on Tuesday, and the rise was confirmed on the following Friday. Edinburgh was unaltered, Glasgow 6d. per boll down, Dublin was dull and 6d. cheaper for red Wheat.

On the third Monday there was a short supply of English wheat, but with another large arrival of foreign, including 7,000 qrs. from Danzig and Pomerania. The show of English samples this morning was unusually small, and limited to one Essex factor, who would not sell without buyers paying 1s. advance, there having been most disastrous storms in the north, and this advance was paid where business was done, though reluctantly, and some samples were left on the stand unsold. As respects foreign the arrivals were too liberal to permit of any rise; but more was generally demanded, this checking sales. Floating cargoes were a slow sale, at 1s. per qr. decline, inferior qualities being still further reduced. The advance in London and the rough injurious weather in the north had the effect of generally hardening prices in the country, and many places noted a rise of 1s. per qr. Among these were Leeds, Sheffield, Rotherham, Melton-Mowbray, Spalding, Market Rasen, and Ipswich; while Thirsk and Sleaford were up 1s. to 2s., but Liverpool, which had previously been excited, gave way 2d. per cental on Tuesday. Edinburgh was 1s. per qr. dearer, but at Glasgow no improvement was noted. At Dublin nothing was done in Irish wheat, but foreign was held at 6d. per brl. improvement.

On the fourth Monday there were very small supplies of English wheat, with less arrivals of foreign. The English trade opened on a scanty show of samples, and it was thought with a heavy thunder-storm in the midst of market hours factors would have been able to realise some advance, but millers were not numerous, and none disposed to pay higher rates, so prices were unaltered. The foreign supplies being chiefly Russian, this sort was difficult to sell ex-ship, and rather lower to quit freely, but the finer qualities maintained previous values.

The arrivals in London for the month were 9,768 qrs. English, 138,083 qrs. foreign, against 7,500 qrs. English, 200,485 qrs. foreign for the same time last year. The London exports were 1,295 qrs. The arrivals in the United Kingdom for the month ending 13th July were 3,138,691 cwt. wheat, 343,803 cwt. flour, against

3,138,291 cwt. wheat, 366,597 cwt. flour in 1871. The London averages commenced and closed at 61s. 8d. The general averages opened at 59s., and ended at 58s. 4d.

The flour trade, always influenced by wheat, has been very quiet, though now and then, when the weather threatened, more money was asked, dullness again returning as it became fine. Town-made has stood at 54s., Norfolks at 41s., and best country households 44s., barrels from New York to 29s.—price there 26s. 6d. The imports for four weeks were 55,989 sacks country make, 21,923 sacks 7,332 brls. foreign, against 53,631 sacks country, 20,377 sacks 103,913 brls. foreign in 1871. Thus showing a great falling off in the foreign arrivals.

The receipts of maize have been fair, but not so large as expected, some of the late arrivals from New York have been so out of condition that they would scarcely bring 26s., and fresh corn ex-ship has only brought 27s., though white Galatz is nominally worth 32s. It can hardly be expected this grain will fall much lower, as it is now relatively the cheapest food on the market, and equally available for horses and pigs—the last New York quotations were only 20s. 4d. The months' supply has been 54,047 qrs., against 82,206 qrs. in 1871.

In the absence of the malting season barley has not met with much attention, and scarcely any of home growth has appeared. Various reports are abroad as to the crop, some estimating it as below an average in quality and quantity, but in the Isle of Thanet it certainly looks very fine and flourishing. Foreign sorts have been without change of value, the principal supply being still French, quotations at Paris only 20s. 6d. for good; so we expect still more will come, as the trade is very dull there. Here it is worth 26s. or 27s., and Danish 28s., low grinding 21s. to 24s. The imports for four weeks were 830 qrs. British, 34,598 qrs. foreign, against 313 qrs. British, 26,639 qrs. foreign in 1871.

The malt trade, though not active, has generally been firm, but less so at the months close. Fine quality 70s. to 72s. per qr.

The foreign arrivals of oats have continued very free, and, with a good promise as respects our own crop, and fine weather generally ruling, values have gone down 1s. 6d. to 2s. per qr. With much difficulty in disposing of the numerous cargoes out of condition, continually arriving, Russian sorts have been worth 17s. 6d. to 20s., Swedish 18s. to 21s. per qr. The supply from the country has been very limited, being worth more at home for consumption, and little trade experienced. Prices are so low, and such losses have been incurred by importers, that we should not be surprised to find less forwarded. On the other hand, Belgium yet has stores, as well as the Baltic, and the prospects in France are reported as splendid; so, with fine weather, there does not seem much chance of permanent improvement. The imports into London for four weeks were 1,234 qrs. English, 235,566 qrs. foreign, against 2,794 qrs. English, 253 qrs. Scotch, 367,006 qrs. foreign for the same period in 1871.

Beans, with but moderate supplies, English and foreign together, have been very dull, and rates, more especially for inferior foreign, have given way 1s. to 1s. 6d. Egyptian sorts of low quality may be had at 30s., and Barbary sorts at 39s. The low price of maize quite undermines this grain, for which there seems no chance so long as the New York imports last. The arrivals in London for the month were 1,774 qrs. English, 4,035 qrs. foreign, against 682 qrs. English, 14,079 qrs. foreign for the same time in 1871.

The supply of English peas has been very limited, boilers not being required at this time of the year, and hog-feeding sorts being supplanted by the low rates of other pig food. But foreign white have come in plenty

The seed trade has been quite dormant ever since the weather changed from severely cold to warm. Scarcely any stocks of cloverseed are held; but, with a hot August, we may have a fair yield, and the artificial grasses generally, like the hay crop, have been looking well.

	Shillings per Quarter.
WHEAT, new, Essex and Kent, white.....	58 06 ⁵ / ₈
red	62 61
Norfolk, Lincnsh., and Yorksh., red.....	62 61
BARLEY 29 to 32..... Chevalier, new	36 42
Grinding..... 28 29..... Distilling	29 33
MALT, Essex, Norfolk, and Suffolk	62 70
Kingston, Ware, and town-made	64 70
Brown	62 58
RYE.....	36 38
OATS, English, feed 20 to 25..... Potato.....	25 32
Scotch, feed..... 00 00..... Potato.....	00 00
Irish, feed, whitel? 21..... Fine.....	21 24
Ditto, black..... 17 20..... Potato.....	26 30
BEANS, Mazagan ..32 34..... Ticks.....	32 34
Harrow ..34 36..... Pigeon	37 45
PEAS, white, boilers..36 39 Maple 37 to 40 Grey, new.....	32 34
FLOUR, per sack of 280lbs., best town household.....	48 54
Best country households.....	41 44
Norfolk and Suffolk	39 41

		Shillings per Quarter.
WHEAT, Dantzic, mixed	67 to 63.....	extra.....63 to 66
Königsberg	66	61.....extra.....62
Rostock	67	59.....fine.....62
Silesian, red	65	57.....white.....62
Pomera, Meckberg., and Uckermrk., red	58	
Russian, hard, 44 to 48	St. Petersburg and Riga	49
Danish and Holstein, red	54 58.....	American57 61
Chilian, white	64.....	California 64.....Australian62 65
BARLEY, grinding 21 to 27	distilling and malting	28 31
OATS, Dutch, brewing and Poland	17 to 23.....	feed15 17
Danish and Swedish, feed	18 to 20.....	Stralund.....18
Canada 17 to 19, Riga 18 to 20, Arch.	18 to 20, P's	large 18 20
TARES, Spring, per qr.....	small 35 36.....	large 44 44
BEANS, Friesland and Holstein		33 35
Königsberg	32 to 33.....	Egyptian.....31 32
PEAS, feeding and mangle	32 37.....	fine boilers.....36 38
INDIAN CORN, white	30	32.....yellow.....27 29
FLOUR, per sack, French	00.....	Spanish, p. sack 00 00
American, per brl	25	26.....extra and b'dle 27 29

Wheat	23,536 $\frac{1}{2}$	qrs.	58s.	6d.
Barley	189 $\frac{1}{2}$	"	32s.	1d.
Oats	949	"	24s.	5d.

Years.	WHEAT.			BARLEY.			OATS.		
	Qrs.	s.	d.	Qrs.	s.	d.	Qrs.	s.	d.
1868...	27,993½	62	9	417½	35	8	881½	31	4
1869...	40,873½	50	11	246½	30	3	1,089½	27	3
1870...	40,674	49	9	251½	31	2	1,194½	26	11
1871...	30,419½	58	10	122½	35	11	1,052½	27	2
1872...	23,536½	68	6	189½	32	1	949	24	6

FOR THE SIX WEEKS		Wheat.	Barley.	Oats.
ENDING		s. d.	s. d.	s. d.
June 15, 1872.....		53 8	34 10	23 4
June 22, 1872.....		59 0	33 0	24 2
June 29, 1872.....		59 2	33 9	23 3
July 6, 1872.....		58 4	32 3	24 5
July 13, 1872.....		53 4	33 3	23 9
July 20, 1872.....		58 6	32 1	24 5
Aggregate of the above.....		58 8	33 2	23 11
The same week in 1871.....		65 10	35 11	27 2

PRICE.	June 15.	June 22.	June 29.	July 6.	July 13.	July 20.
59s. 2d.	...	...	...	...	...	...
59s. 0d.	...	...	...	...	...	...
58s. 8d.	...	...	...	...	...	...
58s. 6d.	...	...	...	...	...	...
58s. 4d.	...	...	...	...	...	...

Mustard, per bush., brown 14s. to 16s., white 8s. 6d. to 10s.	
Canary, per qr.	new 54s. 56s. old 52s. 55s.
Cloversd., fine red and dark purple 68s. 72s., com.	46s. 46s.
Coriander, per cwt.	22s. 23s.
Tares, winter, new, per bushel.	5s. 3d. 5s. 6d.
Trefoil, old and low 16s. to 20s.	new fine 20s. 24s.
Ryegrass, per qr.	20s. 22s.
Linseed, per ton	60s. 62s.
Linsed Cakes, per ton	£11 5s. to £11 10s.
Rapessed, per qr.	62s. 65s.
Rape Cake, per ton	£8 6s. 0d. to £6 10s. 0d.

Coriander, per tert.	23s. to 24s.
Cloverseed, red 42s. to 48s. „ white	68s. 72s.
Hempseed, small 35s. to 40s. per qr. „ Dutch	45s. 46s.
Trefoil	16s. 18s.
Ryegrass, per qr.	20s. 22s.
Linseed, per qr. „ Baltic 58s. to 62s. „ Bombay	63s. 64s.
Linseed Cakes, per ton. „ £10 15s.	to £11 5s.
Rape Cake, per ton. „ £6 10s.	to £6 10s.
Rapeseed, Dutch.	60s. 62s.
Carraway „ new.	32s. 33s.

Shaws	70s. to 90s. per cwt.
Regents	100s. to 130s. "
Kidneys	110s. to 160s. "

BUTTER, per cwt.:	s.	d.	CHEESE, per cwt.:	s.	d.
Dorset.....	120	124	Cheshire.....	64	34
Friesland.....	102	106	Double Gloucester, new	66	68
Jersey.....	84	94	Cheddar.....	74	90
FRESH, per doz. ...	13	14	American.....	50	58
BACON, per cwt:			HAMS: York.....	90	100
Wiltshire, green.....	78	82	Cumberland.....	90	100
Irish, green, f.o.b. 78	82		Irish.....	90	100

POULTRY, &c., MARKETS.—Goslings, 4s. to 6s.; Ducks, 1s. to 1s. 6d.; Ducklings, 1s. 6d. to 2s. 6d.; Surrey Fowls, 2s. 6d. to 5s.; Sussex ditto, 2s. 6d. to 3s. 6d.; Boston and Essex, 1s. 6d. to 3s.; Irish, 1s. to 2s.; Rabbits, tame, 1s. to 1s. 6d.; ditto wild, 6d. to 1s. 2d.; Pigeons, 6d. to 1s.; Leve-
rets, 1s. to 6s.

We have a good attendance of buyers, and ordinary goods move freely, chiefly bush fruits, at somewhat higher rates. Hothouse produce is ample for the demand, Pines being rather more in request, without any advance in price, cargoes of West Indian fruit being again near at hand, and must be sold, owing to the tropical weather we are experiencing.

	s. d.	s. d.		s. d.	s. d.
Apples, $\frac{1}{2}$ sieve	0	to 0	Lemons, $\frac{1}{2}$ hundred.	7	to 10
Apricots, per doz.	2	0	Melons, each.	3	0
Cherries, per lb.	0	6	Nectarines, per doz.	8	18
Cobs, per 100 lb.	0	0	Oranges, $\frac{1}{2}$ hundred	10	15
Figs, per dozen	4	10	Peaches, per dozen	8	24
Filberts, per lb.	0	0	Pine Apples, per lb.	3	0
Grapes, per lb.	3	0	Strawberries, per lb.	1	3

Artichokes, green.	0	3	0	0	0	Leeks, per bunch		0	2	0	0
Asparagus, per hund.	0	0	0	0	0	Lettuces, per score		1	0	0	0
French, ditto	0	0	0	0	0	Mushrooms, per pottle		3	0	0	0
Broad beans, per hund.	0	0	0	0	0	Onions, per score		1	0	0	0
Broccoli, purple, per bd.	0	0	0	0	0	Parsley, per bunch		2	0	0	0
Brus. Sprouts, per sive.	0	0	0	0	0	Peas, new, per fr.		1	0	0	0
Cabbages, per dozen	0	0	0	0	0	Potatoes, per hund.		2	0	0	0
Carrots, per hund.	0	0	0	0	0	Radishes, per bunch		0	2	0	0
Carrots, per bunch	0	7	0	0	0	French, ditto		0	0	0	0
French, ditto	0	0	0	0	0	Rhubarb, per bundle		0	4	0	0
Cauliflowers, per doz.	2	0	0	0	0	Sage, per lb.		2	0	0	0
Celery, per doz.	0	0	2	0	0	Scorzonera, per bundle.		0	0	0	0
Cucumbers, each	0	6	1	0	0	Shallots, per lb.		0	6	0	0
Fch Beans, new, sive.	0	0	6	0	0	Spinach, per bushel		2	0	0	0
Herbs, per bunch	0	0	0	0	0	Thyme, per lb.		2	0	0	0
Kidney Beans, per hund.	3	0	0	0	0	Turnips, per bun.		0	0	0	0

New Potatoes—Round, 6s. to 12s. per cwt.; Kidneys, 9s. to 14s. ditto.

TIMBER.

LONDON, SATURDAY, July 27.

BALTIC FIR TIMBER.

Per load 60 cubic feet.

	s. d.	s. d.	£ s. £ s.
Riga	70	0 to 75	0
Danzic and Memel	80	0 100	0
Crown	75	0 80	0
Best middling	65	0 75	0
Good middling & second	60	0 65	0
Common middling	50	0 55	0
Small, short, and irregular	50	0 50	0
Stettin	47	0 50	0
Swedish	47	0 50	0
Small	0	45	0
Swedish & Norway	0	42	6
balcks	0	42	6

AMERICAN PITCH PINE.

United States 0 0 0

BALTIC OAK TIMBER.

Memel, crown 110 0 130 0

Brack 90 0 105 0

Danzic and Stettin, crown 100 0 130 0

Brack & unsquard 75 0 95 0

WAINSCOT.

Per log 18 cubic feet.

Riga, crown 77 6 110 0

Brack 75 0 80 0

Memel and Stettin, crown 75 0 80 0

Brack 40 0 47 0

DEALS AND BATTENS.

Per Petersburg standard hundred.

Aroahangel £ s. £ s.

Seconds 12 10 14 10

Petersburg 12 0 13 5

Wyburg 9 15 10 10

Finland and hand-sawn Swedish 7 10 8 15

Petersburg & Riga white deals 8 10 10 0

Memel and Danzig, Crown red deals 0 0 0 0

Brack 0 0 0 0

LEADENHALL LEATHER MARKET.

LONDON, SATURDAY, July 27.

CROP HIDES.

ENGLISH.

lbs.	lbs.	d.	d.
28 to 35	16	to 17½	
36 40	16	18	
40 45	16½	19	
46 50	17	19	
50 55	17	19	
56 60	17	19	

BUTTS.

ENGLISH.

lbs.	lbs.	d.	d.
14 16	20	26	
17 20	20	26	
21 24	20	26	
25 28	20	26	
29 32	20	27	
33 36	21	28	

FOREIGN.

lbs.	lbs.	d.	d.
16 20	19	22	
21 24	19	22	
25 28	19	22	
29 32	17	23	
33 36	17	23	
37 40	17	23	
45 50	17½	24	

OFFAL.

	d.	d.
English Shoulders	14	20
Do. Checks and Faces	8	10
Do. Bellies	11	13
Do. Middle do.	13	15
Foreign Shoulders	12	13
Do. Necks	10	11
Do. Bellies	10	12
Do. Middle do.	12	13
Dressing Hide Shoulders	12	14
Do. do. Bellies	10	12
Kip Shoulders	8	15
Do. Bellies	7	11

DRESSING HIDES.

	lbs.	lbs.	d.	d.
Common	20	24	16	to 17½
Do.	25	28	18	17½
Do.	30	34	16	17
Do.	35	40	16	17
Saddlers	30	35	17	18
Do.	36	50	17	18
Bulls			12	14
Shaved	14	16	18	20½
Do.	17	19	18	20½
Do.	20	23	17½	20
Do.	24	28	17	19½
Scotch do.	16	24	18	21
Coach, per hide			8	to 10

HORSE BUTTS, SHAVED.

	d.	d.	d.	d.
English	15	17	16	18
Spanish	13½	16	14	17

	£ s. £ s.
Christiana & Sanno-	
sund deals, white	
and yellow	10 0 to 12 10
Second do.	0 0 0 0

	£ s. £ s.
Danzic and Frederick-	
stadt battens, do.	0 0 0 0
Dram 6½-inch do.	0 0 0 0
Göthenb'gs stocks	10 0 11 0
Common	8 10 9 15

	£ s. £ s.
Göthe and	
14-foot deals	10 10 12 10
Swedish deals and	
battens, long mill-	
sawn	8 0 9 10

	£ s. £ s.
Danzic, or wu-	
per 40-feet 3-inch	1 0 1 5
Brack	0 14 0 17

LATHWOOD.

Per cubic fathom.

Petersburg 9 0 10 0

Danzic, Memel,

and Swedish 5 0 7 0

FIREWOOD.

Per cubic fathom.

Swedish, red deal

ends 5 0 5 10

Norway, red & white

boards 4 0 4 10

Bounds and slabs

3 10 4 0

OAK STAVES.

Per mille pice.

Memel, crown 9 20 0 210 0

First brack 170 0 175 0

Danzic, Stettin, &

Hambro' full-siz'd 130 0 175 0

Do. crown 85 0 90 0

Canada, stand pipe

Funcheon, £ 1,300

pieces 23 0 0 0

Bosnia, single bri,

£ 1,200 pieces 30 0 32 0

United States, pipe

Hogshead, heavy

and extra 35 0 52 0

Slight 26 0 31 0

HORSE HIDES.

	lbs.	lbs.	d.	d.
English	13	18	to 16	18
Do. without butts	9	14	16	18½
Spanish, salted,				
without butts,				
per hide	6	9	13	6 20 0
Do. do. do.	12	17	0	23 0
Do. do. inferior	11	14	0	20
Do. dry do.	6	8	12	0 18 0
Do. do. do.	9	11	14	0 20 0
Do. do. do. inferior	10	0	2	0

CATTLE SKINS.

	lbs.	lbs.	d.	d.
Av. weight, per dozen	20	30	24	34
Do. do.	30	35	24	34
Do. do.	40	40	24	36
Do. do.	45	45	24	36
Do. do.	50	50	24	36
Do. do.	60	75	23	35
Do. do.	90	22	34	
Do. do.	50	130	22	30

Welsh, unrounded.

Av. wght. p. doz. 25 35 22 26

Do. 35 50 22 26

KIPS.

	lbs.	lbs.	d.	d.
Petersburg	4	7	20	24
Do.	7	9	20	23
Do.	9	10	19	21
Do.	11	13	17	20
E. I. dry salted	4	7	22	26
Do. do.	7	9	20	24
Do. seconds			19	22
Do. for bams			16	18½
Do. inferior			9	15

SHEEP SKINS.

	lbs.	lbs.	d.	d.
Basils, unstrained, per lb.	10	22½		
Do. facing, per doz.	7	24		
White Sheep & Lambs		8	18	
Do. strained		10	24	
Do. aprons		12	30	
Tan Sheep & Lambs		12	30	
Sumach roams		16	45	
Do. skivers		12	30	
Bark skivers		14	30	

SUNDRIES.

	£ s. £ s.
Hog Skins, best, each	8 to 15
Do. seconds	6 10
Seal Skins, split, per dozen	0 0
Do. for bams	0 0
Calf Skins, Sumach	0 0
tanned	30 60
Do. white	14 21
Horse Hides, white, each	100 to 140
Hide Splits, per lb.	100 to 140

HAY MARKETS.

LONDON, SATURDAY, July 27.

SMITHFIELD.—Large supplies of hay and straw are on sale. The trade is quiet, and middling qualities are unsaleable. Prime old meadow hay, 80s. to 90s.; inferior, 36s. to 70s.; prime old clover, 110s. to 126s.; inferior, 36s. to 90s.; prime new clover, 80s. to 90s.; inferior, 36s. to 70s.; straw, 40s. to 44s. per load.

BICESTER, (Friday last.)—Hay, £3 to £5; Straw, £2 to £2 10s. per ton.

DERBY, (Tuesday last.)—Hay, £3 15s. to £4 10s.; Straw, £3 to £3 10s. per ton.

WORCESTER, (Wednesday last.)—Hay, new, 75s. to 80s.; ditto, old, 85s. to 87s. 6d.; Straw, 42s. 6d. to 47s. 6d.

HIDE AND SKIN MARKETS.

MARKET HIDES	£ s. d.	£ s. d.	£ s. d.
56 to 61bs.	0 4½ to 0 5		
64 to 72bs.	0 4½ to 0 5		
72 to 80bs.	0 5 to 0 5½		
80 to 88bs.	0 5½ to 0 5½		
88 to 96bs.	0 5½ to 0 5½		
96 to 104bs.	0 0 to 0 0		
104 to 112bs.	0 0 to 0 0		
Horse hides, each	0 0 to 0 0		
Calf skins, light	3 0 to 5 0		
Full	3 6 to 0 0		
Polled sheep	0 0 to 0 0		
Half-breds	0 0 to 0 0		
Downs	0 0 to 0 0		
Shearings	3 0 to 3 6		
Lambs	4 0 to 5 6		

BARK AND TANNING MATERIALS.

LONDON, SATURDAY, July 27.

	£ s. £ s.		£ s. £ s.
English, per load of		Cork Tree, Barbary	6 0 to 7 0
45 cwt. delivered in		Do. Sardinian	9 0 10 0
London	13 0 to 14 0	Valonia, Smyrna	15 0 20 0
Copice	0 0 0 5	Do. Camata	0 0 0 0
Dutch, per ton	5 0 5 10	Do. Morea	12 0 17 10
Hambro'	5 0 5 10	Gambier in bales	21 10 22 10
Antwerp Tree	5 5 5 16	Ditto, cubes, pressed	24 10 25 0
Do. Copice	5 15 6 10	Ditto, cubes, free	25 0 26 0
French	0 0 0 0	Cutch, best Pegu	26 0 27 0
Mimosa Chopped	9 10 11 10	Divi Divi	12 0 15 0
Do. Ground	10 16 11 10	Myrabolans	12 0 17 10
Do. Long	8 0 9 10	Sumach, Sicily	20 0 22 4

FLAX, &c.

LONDON, SATURDAY, July 27.

	£ s. £ s.		£ s. £ s.
Hemp, Petersburg		Collyer	26 0 60 0
clean, per ton	35 0 to 0 0	Junk	0 0 0 0
Outshot	32 10 0 0	Flore	13 10 33 0
Half-clean	30 0 0 0	Flax	40 0 51 0
Riga, Rhine	37 0 0 0	St. Petersburg, 12	
Manilla	39 0 70 0	head	38 0 46 0
East Indian, Sunn	16 0 27 15	9 head	29 0 31 0
Jute	11 15 28 0	Egyptian	54 0 60 0

MANURES.

Peruvian Guano, direct from importers' stores, £13 0s. per ton. Bones, crushed £8, half-inch £8 5s., bone dust £3 1s. per ton. Coprolite, Cambridge (in London) whole £3 5s., ground £3 15s., Su whole £2 10s., ground £3 per ton. Nitrate of Soda, £17 per ton. Sulphate of Ammonia, £22 10s. to £24 per ton. Gypsum, £1 10s. per ton. Superphosphate of Lime, £5 5s. to £6 5s. per ton. Blood Manure, £6 10s. to £8 per ton. Dissolved Bones, £7 per ton. E. PURSER, London Manure Company, 116, Fenchurch Street, E.C.

LIVERPOOL SEED AND GUANO, &c., MARKET.

(Saturday last.)—There has been a seasonable home and export inquiry for Nitrate of Soda at last week's prices, and the sales comprise 250 tons on the spot at 14s. 6d. to 14s. 9d., with 300 tons afloat, since arrived, at 14s. 7½d. per cwt. for Liver-

pool; the weeks import is 9,700 bags. Nothing to report in River Plate Bone Ash on the spot, but for arrival some cargoes have realized £6 7s. 6d. for Ash on 70 base and £7 per ton for Cattle Bone. There has been an inactive market for Linseed on the spot; sales of Turkish at 61s. 6d., and of Chilean at 66s.; to arrive, Calcutta at 60s. 6d. to 61s. per qr. There is a very slight demand for Rapeseed at rather reduced rates, trivial sales of yellow Guzerat at 62s. per qr. Of Canary-

seed sales at 46s. for Turkish, and 47s. 6d. for Barbary, and of Cottonseed at £7 2s. 6d. to £7 5s. for West Indian, and at £6 5s. per ton for Maranham to arrive. For Peruvian Guano, all faults, £9 15s. was offered at auction, and for 600 tons from Patagonia 30s. per ton was also bid. No change in Oleakes. The sales of Tallow have again been unimportant at last week's quotations.

Guano, Peruvian £12 10 0 to £20 0 0 Cloverseed, N.A. 0 0 to £20 0 0

Linsd. Bomby, p. q. 3 5 0 5 0 Niger 2 7 0 2 8 0

Linsed Cake, per ton—

Amer., thin, bgs. 9 15 0 10 5 0 German Kainit 1 0 0 2 0 0

Coted. Cake, decor. 7 5 0 0 0 0 Tallow, 1st P.Y.C. 0 0 0 0 0

Rapeseed, Guzerat 3 10 3 2 0 super. Norths 2 1 0 2 3 6

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OCTOBER, 1872.

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Per
F2254

THE

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AND

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OF

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OCTOBER, 1872.

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Engraved by Hare from a Photograph.

**THE LEICESTER MONUMENT,
IN HOLKHAM PARK.**



"By a shiny night."

As now Published by the Rev. A. Harding, 40, Strand, W.C.

THE FARMER'S MAGAZINE.

OCTOBER, 1872.

PLATE I.

THE LEICESTER MONUMENT.

During the summer of 1870 there was some smart skirmishing between the agriculturists of Bedfordshire and Norfolk, Mr. Charles Howard opening the ball at Harleston, where he was acting as a judge, by cautioning his eastern friends in this wise: "I have had the opportunity of seeing a good deal of the farming in Norfolk during the last few days. I am not going to find fault with your farming, but I should tell you this, that if you don't look out you will no longer hold the position you have done, but other counties will soon trip you up;" and so on, with a special protest against "the beastly rubbish" in the way of timber. Mr. Henry Overman, in reply, said, "as to hedge-rows Mr. Howard would not have made the remarks he had done if he had visited West Norfolk; for there the landlords were going a head, taking down the fences by wholesale and thereby the timber."

Very shortly afterwards Mr. James Howard, M.P., the chairman of the year, gave some of the leading members of the Farmers' Club a day's outing in Bedfordshire, when the subject was incidentally renewed by Mr. Charles Howard, justifying the warning he had given when in Norfolk: "No man was so unsafe as he who considered himself safe," and "some of the implements he had seen in Norfolk were curiosities which might have come from Noah's Ark." In answer here, Mr. Robert Leeds said "Mr. Charles Howard had not visited Norfolk in reality, for the Harleston show had been held in a yard which was actually in Suffolk. In no county did the landlords do more to benefit their tenants than in his own, and the nobleman under whom he lived had compelled his tenants to 'cut down' all the vermin, beginning with the rabbits. He trusted the Norfolk show would soon be held near his own place, and he should be happy to receive those of his audience who might attend it." The chairman of the day, Mr. James Howard, pointed this little episode in the proceedings by remarking that "the development of agriculture in Norfolk and Bedfordshire was due to the exertions of the Earl of Leicester and the Duke of Bedford."

And during this past summer of 'seventy-two Mr. Leeds was enabled to carry out his hospitable threat. Some of his audience from the banks of the Ouse were present at that Royal meeting at King's Lynn, Mr. Charles Howard amongst them, when again acting as a judge, and these were secured for a companion outing in Norfolk. On the day after the show we start early, and make a good beginning at Castle Acre, the repute of which Mr. Leeds himself ably sustains. Then, we touch on the occupation of a worthy neighbour, Mr. Ringer, of Rougham; and next, in turn, little though he list it, the Midland Counties critics, like Mr. Howard and Mr. Newton, are busy over the crops and flocks of Mr. Henry Overman at Weasenham—the good wheats, the trim fences, and the Oxford *vice* the pure Downs of his forefathers. Passing the Marquis of Townsend's place at Raynham we order "the next pair out" at Fakenham, where even in these Express times a few posters are still to be found. In that crumbling castle at Barsham, on the lands of my Lord Hastings, grim old Oliver had once a home, but our party of to-day has scant leisure for the picturesque—their business is with more wheats and more barleys, and "how much an acre you give for this?" and "what's the course you follow there?" And so speeding on by Mr. Lee Warner's at Walsingham, we skirt Egmore, the farmstead of Mr. Robert Overman, and even the Bedfordshire censor smiles his approval. With just here and there "a sniff" of the sea we reach the long drive avenues to Holkham, the seat of those Lord Leicesters to whom "the development of agriculture in Norfolk is due"—who "as landlords do everything to benefit their tenants," and of whom that tall column "cherishes the precedent and commends the practice," Many years have sped since we were at Holkham, and as our companions, the judges of the land, seem to know little or nothing of the monument we put the photographer to work forthwith, and epitomise the story from Mr. Bacon's little book.

In July, 1842, immediately after the death of Lord Leicester, at a preliminary meeting held in Norwich,

Mr. John Hudson moved the following resolutions :

That, this meeting, deeply impressed with the irreparable loss they have sustained by the death of that great and good man, Thomas William Coke, Earl of Leicester, are anxious immediately to express their gratitude by thus publicly acknowledging the many acts of kindness, of friendship, and princely hospitality, which, for so long a period, and on all occasions, they invariably experienced at his hands.

That, as farmers, we owe to the late Earl of Leicester a debt never to be discharged, for whilst many have now to lament the loss of the kindest and most liberal of landlords, in him we all have to deplore the loss of the greatest friend and patron of agriculture the world has hitherto seen.

That, this meeting therefore, deeply impressed with the private worth and virtue, with a due sense of the public services, and the encouragement so liberally, so successfully, so patriotically bestowed upon agriculture by the late Earl of Leicester, are desirous of testifying their gratitude, for friendship so sincere and disinterested, for services so great, and for benefits so lasting and extensive, by the erection of a Public Monument to his memory.

That, this meeting of the yeomanry and tenantry, although feeling it incumbent upon them in gratitude to their deceased and revered benefactor, to come thus prominently forward, most respectfully and cordially invite the nobility, gentry, clergy, and all others who participate in their sentiments, to join them in furthering the object in view.

A Committee was accordingly formed, and close upon £5,000 soon collected, when opinion being divided as to the site, the question was put to the vote of the subscribers:—For Holkham 322, and for Norwich 281.

The design of Mr. Donthorn was selected at a cost not to exceed £4,200. The monument, overlooking the house, from the hill, and standing on a base of forty-four feet square, is one hundred and twenty-five feet in height. The work is composed of a pedestal, on which is erected a fluted column surmounted by a wheat-sheaf. Three sides of the pedestal are bas-reliefs. One represents the late Earl granting a lease to a tenant; the second the Holkham sheep-shearing; the third irrigation; and on the fourth side is the following inscription :

This column in Memory of
THOMAS WILLIAM COKE, EARL OF LEICESTER,
For more than Half a Century

The faithful Representative of this County

In the House of Commons,

Erected by Subscription

Originating with the Yeomanry and supported by the
Noblemen and Gentlemen of all Parties,
Records a Life devoted to the Welfare of his Friends,
Neighbours, and Tenants.

Of such a Man

Contemporaries needed no Memorial: his deeds
Were before them: his Praises in their Hearts;
But it imports Posterity to know that HE pre-eminently
Combined Public Services with Private Worth;
Affording an illustrious Example of Birth and Station
Actuated by Duty and inspired by Benevolence.
Integrity and Independence marked his Political Career,

Love, Honour, and Regret

Attend the Father, Friend, and Landlord;
The Arts lament in him a liberal and fostering Patron;
And Agriculture, to which

From early Manhood to the close of Life he dedicated

Time, Energy, Science, and Wealth,

Crowning his Cenotaph with her Emblems,

Cherishes the Precedent and commends the Practice

Of her Great Promoter and Benefactor.

The four corners of the pedestal show the means by which cultivation and production were improved and increased by the late Earl. At the first corner, a Devon Ox, with the inscription, *Breeding in all its branches*; the second corner, Southdown Sheep, with the inscription, *Small in size but great in value*; the third corner, the Plough, with the inscription, *Live and let live*; and the fourth corner, the Drill, with the inscription, *The Improvement of Agriculture*.

The Sheep Shearing group includes—Mr. Gurdon, Sir W. Folkes, Lord Colborne, the late Earl of Leicester, Mr. Leamon, Sir J. P. Boileau, and Earl Spencer; Granting a Lease is made up of Mr. Blomfield, Mr. Hudson, jun., Mr. Baker, the present Earl of Leicester, Mr. Blaikie, Mr. Overman, Mr. Hudson, sen., Sir W. Foster, and the late Earl of Leicester; and Irrigation of Mr. William Beck, the late Earl of Leicester, and the late Duke of Bedford.

Here, then, having got Lord Leicester and the Duke of Bedford, the Champions of the two counties, together again, we drive to AGRICULTURAL DEVELOPMENT in a glass of champagne, backed by as mild a cigar as that fierce commentator from Biddenham can find, and are soon on the way home, through Quarles, and Lord Cholmondeley's property. There is, however, of course another great landmark in our journey, and at Sandringham we just catch a glance of the Prince and Princess as they cross the road for the gardens, while Mr. Beck whispers our *Open Sesame!* to a scene which really has something of an air of enchantment about it. Nature and Art, woodland, and water, have done so much, and Art has been so judiciously "kept down," as to give the effect of its illustrious possessor having the rather grown the place than made it. Mr. Howard himself expresses an admiration even for timber and the bordering plantations through which we gang on to Mrs. Cresswell's, the Lady Pigot of these parts, with her heart in the science, and "some capital lambs those," as the stranger visitors are kind enough to intimate. Mr. Middleton, too, "does his land well" at Flitcham; and just by way of "relief," if there were only time, we should like to call in at the kennels of the West Norfolk at Masingham, and anticipate another bench of judges, who open the Assize here on the morrow. But we are due again at Castle-Acre, there to talk over all we have seen, and ready to testify to all Thomas William Coke, Earl of Leicester, and his descendants have done for the farming of Norfolk, and to hear how they have ever combined "Public Services with Private Worth."

PLATE II.

"ON A SHINY NIGHT."

'Till I took up to Poaching,
As you shall presently hear,
For 'tis my delight on a shiny night
In the season of the year.

Or, again,

Good luck to every ge'nelman
Who wants to buy a hare!
For 'tis my delight on a shiny night
In the season of the year.

And so on, as we first heard it some forty years since when trolled out at a village feast by a famous cricketer, who was something more than suspected at off times of putting the sentiment of his song into practice.

But if we can only manage to keep down the hares for the harriers and long-tails poaching will not pay; and as for sport, hare-shooting is but mere "potting" at best, as nobody cares for fur if he can get a chance at feather.

CATTLE PLAGUE "THEORIES."

For some considerable time past it has been our duty to draw attention to a very anomalous state of things. Although, as it would seem, a successful effort had been made to hold London safe, and although it was well known that disease was pouring in at other points, a very peculiar desire has been evinced to keep guard over the City, and to let the country take care of itself. Every mole-hill on the Thames has been magnified into a mountain, and the most wonderful cock-and-bull stories continually put about. The outbreak in Yorkshire maintains, with marked emphasis, the necessity for a directly different course of action. The metropolis, so far, is tolerably well looked after, while from elsewhere it is that danger is to be dreaded. If we are to trust to "authority" and "the profession," the argument goes straight in this direction. Professor Simonds, as we quoted from him in our last number, dwells on "the difficulty" and "risk" in dealing with diseased animals ashore, even at a port like Hull, and in support, as it were, of the September *Veterinarian*, clearly prefers letting the beasts drift out to sea. A writer in *The Field*, moreover, of Saturday 14th, says much the same, only still more decisively, and we give the more importance to this article as being manifestly either actually penned or prompted by one of the Professors engaged over the Yorkshire outbreak. The writer, then, in making a deduction from the premises taken after his own fashion, says: "The addition to our previous experience which is supplied by the circumstances of the recent outbreak is in one sense valuable; but what we gain in knowledge is taken from our consciousness of security. Slaughter of imported animals at the place of landing has always been the final demand of the home breeder contending for the safety of his herds; but here is a case where due provision existed for the slaughter of the cattle which introduced the disease had they been landed; and apparently a more stringent precaution than slaughter at the landing place was adopted, and yet without success. Waterside markets and quarantine stations are very effective inventions, in theory; but the experience of Ireland in 1866, and our experience of the last few weeks, should teach us the importance of guarding against the conveyance of contagion by indirect means. Our measures of precaution are calculated to induce a false conviction of safety, unless we remain awake to the existence of imminent danger whenever animals affected with cattle plague approach our shores. At none of our landing places, except Deptford market, are there any efficient provisions for the destruction of diseased animals, and nowhere, so far as we have seen,

are there proper arrangements for disinfecting persons who have been in contact with plague-infected animals." All this is well worth pondering over, showing as it does how much love's labour has been lost, and how, *except at Deptford*, there are no "efficient provisions;" whereas we have been assured almost from day to day that Deptford is the plague spot where there is no efficient provision!

There is one sentence in the extract we give of peculiar significance, and that is as to "the conveyance of contagion by indirect means." The "materials" for the history of the outbreak, as now "in possession of the Privy Council," and probably supplied by the same writer already quoted, are published in *The Times* of the same day, that is of Saturday last, and herein the "indirect means" are more definitely spoken to: "None of the diseased cattle were permitted to land; but they were all slaughtered on board, and the carcasses, batted down in two lighters, were sent out to sea to be sunk in the manner that has more than once been described. This was not done until the 28th, and it is quite possible, or even likely, that the disease may have been conveyed to cattle on shore by persons employed in the slaughtering on board. No exact way in which this could have happened has at present been traced out, and it is said that the slaughterers were disinfected on the completion of their work."

On this showing the origin of the outbreak has been triumphantly traced, and the Editor of *The Agricultural Gazette*, who has been "about" with Professor Browne in Yorkshire during the past week, is now enabled to state how "it seems probable that the three strange animals came direct from the source of the pestilence, with the germs ready for development;" while the Privy Council materials tell us that "it is quite possible or even likely" that these three strange animals, of which nobody appears to have known anything in particular, might have taken the disease from "persons employed in slaughtering] on board" or by some other "indirect means." Upon this a very comfortable story or theory is built up, mainly as it would look with the object of "covering" the culpable negligence attributable to somebody or other in disposing of the carcasses at Hull; and of course, for affording a further opportunity of sneering at "the theories which have been advanced to explain the outbreak of cattle plague in the East Riding, which ascribed it to morbid emanations from the carcasses of the Russian cattle washed ashore."

Putting aside for a moment our own "theory," that notorious article in *The Veterinarian* for September arrived at a complacent conclusion at thorough

variance with the "materials" upon which the "theory" of the Professors is now advanced: "the escape we have had is a narrow one, for security depended not only on the quick detection of the disease, and the destruction of infecting materials as centred in the animals themselves, but in the disinfection, or otherwise dealing with matters, things, and persons, so as to prevent the *materies morbi* being carried to our cattle." Thus, until the disease broke out, we were informed upon authority that matters, things, and persons *had* been disinfected; and when it did break out, we gather from the same high source that it is "probable" at any rate that matters, things, and persons *had not* been disinfected, as nowhere but at Deptford "are there proper arrangements for disinfecting persons." Under different circumstances it is "probable" again, that another view may be taken of "infecting materials in the animals themselves." On the 1st of September the notion of any danger to be dreaded from carcasses washed ashore was utterly ridiculed, as the disease had not then appeared;

but since, not a word has been advanced in support of such a "theory" by either of the Professors, Mr. Simonds contenting himself with saying that it was the duty of Browne, Atkinson, and Co. to see the lighters sunk, and Browne, Atkinson, and Co. saying in reply that "neither our senior nor any other member of our firm undertook to see such work done." According to *The Veterinarian*, of which Professors Simonds and Browne are the proclaimed Editors, it was really quite immaterial on the first of September whether the carcasses were sunk or not, but other phases in the case have undergone a change since then, and it would really be of advantage to know how the Professors stand at present with regard to their own theory before they attempt to ridicule the theories of other people. The country cannot afford to play fast and loose with such a matter as this. At one moment in support of a certain theory the regulations at Hull are pronounced to be efficient, and then by way of impugning another awkward theory the regulations at Hull are declared not to be efficient.

CATTLE DISEASES AND SHORTHORN BREEDING.

It may seem fantastic to couple these two things together, but we honestly believe that a more sensible method of dealing with the former will only be attained by an extension of the latter. That the country has of late been sorely plagued with contagious diseases of every degree of destructiveness (from the rinderpest which killed more than half of its seizures, to the foot-and-mouth disease which slaughters about five per cent. of the animals attacked), is unhappily beyond disputing by anybody. Of the rinderpest we say nothing, because we are luckily quit of it for the time; and because, even now, to give a genuine opinion about it and its treatment is to provoke a storm of personalities from persons committed to one theory or another. We suppose of all nations on the face of the earth the least willing to hear its shakely sentiments fairly discussed is the bold Britisher. But the foot-and-mouth disease has hardly got to rank with theology and the Malt-tax as one of the subjects on which men cannot talk without getting into a passion. As yet, we may start opposite opinions about this epidemic without hearing our antagonist begin by saying "I have no patience," &c., and end by asserting that we, and every member of our class, are either born fools or a general nuisance to society. So before the subject is tabooed, and before it passes into the region of "experts," from whose hands nothing seems to emerge that is intelligible or practicable, we may take an opportunity of saying we shall never be rid of foot-and-mouth disease, or get it under common control, until half the English occupiers of land breed some of their cattle for themselves, and until, by breeding, they allow themselves to learn (that which many excellent agriculturists are profoundly ignorant of), the laws which govern health and life among animals. We think foot-and-mouth disease should be called the "transit-fever." It is the hardships of the journey between the breeding and grazing districts which bred originally and now keep in existence this pestilential drawback to graziers. Just as among the crowded pilgrims to an eastern mart or shrine, or as among the inmates of overpacked gaols in the last century, a characteristic form of contagious disease developed itself, so, in the trucks and shipholds, in which the wretched lean beasts endure the horrors of the middle passage, this particular vengeance against brute maltreatment took its rise, and is still sustained through the mismanagement which originated it. It is not the dis-

tance between the holding of the Irish or Scotch rearer of calves, and that of the portly owner of some century of acres of green crops ready for consumption, and crying "Come eat me," which causes half the disorders which disturb us, so much as the fact that during the passage of this distance the animals are in the ownership and charge of persons who know nothing and care less about what causes sickness and lays the seeds of future disease and premature death. Is this delightful system of changing all the stock on a farm once or twice a year "turning out" so many fat oxen in the winter, without even having reared one—the consummation of all human wisdom? Our predecessors followed this plan, and thrived and waxed rich, but are not the conditions of the problem just a little altered since those days? Does it follow because the plan was a good one once, that it is the best feasible now? Would it not be prudent sometimes to re-open questions once deemed settled, and ask, Is it the wisest plan now, when meat is steadily rising, and wheat rules at a continuously lower average, to depend entirely for one's winter stock on the supply at the nearest market, and the prices the dealers choose to ask and to give? Other classes are rising in rebellion against the exorbitant charges of the middleman: perhaps the time is not far off when the grazier will discover that he is paying very dearly indeed for the services and intervention of his supple friend the dealer. But this is a distinct question. To-day we only inquire, Does not the present system of buying in all one's stock full grown in the autumn, and selling all out in the spring, entail several unpleasant consequences? First, we make a plethora of beef and comparative cheapness when the average farmer wants to sell, and a scarcity and comparative dearth when he has nothing to do with the trade except as a buyer. Next we keep in existence an amount of ignorance about cattle which would be incredible if every year's experience did not prove it to be true. Then we have to grapple with unsoundness of many kinds, quite preventable under a rational state of things, but unseparable from the hurry and crush of a trade which overtasks all that the men connected with railways and packets can do for some few weeks of the year, and then sleeps till another period of activity arrives and finds the staff, ample for ordinary occasions, once more incapable of dealing with this excessive but intermittent traffic. Because the men on a farm,

and the farmer himself, have been in the habit of dealing only with full grown steers, a sound knowledge of animal life and its problems—which can only be gained by watching it continuously in all its stages as on a breeding farm—is rarely to be met with. We are not at all afraid to say that, on a great many first-class occupations, there is not a single person, from the master downwards, who knows what to do when a beast flags, or even notices that he does flag until the disease has so far developed itself that curative treatment is well nigh impossible. A very different kind of observation is cultivated where cows are kept all the year round, and calves have regularly to be reared. There success entirely depends on a habit of carefully watching minute details; and as no symptom can safely be disregarded, the master takes more notice of his stock, and the men get attached to the animals they have reared and tended, and greater interest causes increased knowledge and skill. There are not the losses on regular breeding-farms which are so frequently heard of where cattle are not to be found eight months out of the twelve, and then bought in at some crowded market to be turned out as speedily as possible. If the cattle go to these places well, they do not often come away so. We have said nothing of the waste of letting a beast get full of condition in his native pastures, of reducing him to a skeleton by long journeys and hardships inseparable from railway, steamboat, and fairs, and then freshening him up again, to be again reduced, perhaps, before he takes his last polish and goes, as beef, to the butcher. Hamlet may have wished,

Oh that this too, too solid flesh would melt!

out the grazier is of a different way of thinking. He sees the meat vanish under pleuro-pneumonia, or "transit fever," with anything but satisfaction, and wonders how many weeks' keep he will have to throw away before the beast begins to thrive again—if even he lives to thrive again at all. But the present system has established itself over wide districts; and vested interests, numerous and strong, have established themselves about it; so that if a man speaks of breeding, he speaks to unwilling ears. He is quickly shut up with "Oh that won't do here," or "You can buy cheaper than you can breed," although heads get shaken woefully every spring, when graziers exchange notes over the results of "That fine lot of Irish beasts," or "Those spayed heifers which were as handsome as wax," but left nothing for the turnips and attendance when the cake bill was paid. Breeding, except in a limited number of districts, has never been fairly tried. Where it has, in this paper we have no remarks to make, and no preference to insinuate for one breed over another. Each in its fit loca-

lity is best. But we may be allowed to say that, where no local breed exists, there Shorthorns should be tried. We do not mean that Duchess cows should be imported at a cool thousand a-head, or Knightley or Killerby offshoots at a hundred or two apiece, but good milking cows of Durham, Yorkshire, or Lincolnshire descent should be got, as they may, at a little over dairymen's prices. Then the farm will have a new source of interest, and the banker's book a new set of entries on the right side. Next, a good thick young bull, of a well-established tribe, should be selected, and put to the cows bought in; and all the produce should be reared, and some calves, begotten by the pedigree sire from neighbouring dairies, bought in, and reared too. In a generation or two great improvement will surely be made; and the home-reared steers will be always ready, when a sudden rise in the beef trade makes a sale remunerative. Crops can be grown, even on the most unfavourable occupation, so as to tide over the hot months without losing condition. Then, when the autumn comes and the roots are ready, the cattle will be ready too; and there will not be the same crush to buy, all at one time, and the prices of lean stock will bear a better proportion to that at which they will have to go out at in the spring. At all events the farmer will have a number of fresh chances of getting his necessary stock on advantageous terms. The merit which the Shorthorn has, over all others, is its universal adaptability. Shetland or Sheerness, Kent or Canada, the introductions of Shorthorns thrive, take them wives of the daughters of the land, and rear giant offspring for their owners' benefit. The females will pay for their keep, either in beef or in that true Liebig's "Extractum carnis," milk. When they milk no longer, they will fatten as no other milk machine can. The males, always to be steered without mercy, will grow into useful beasts, which will fatten at eighteen months, or increase till three years old, or work at the plough some time if wanted, and yet make good beef when done with. The large foreign demand which is springing up, as well as the greatly enhanced prices which are every day to be observed at the advertised auctions, tell that, besides millionaires wanting a new link to make society take an interest in them, besides fine ladies wanting a new sensation, besides noblemen wishing to add a new charm to their already charming domains, and besides speculative agents wishing for a new source of profit, there are very many quiet middle-class Englishmen who begin to think that good cattle are worth paying for, and who probably, when they buy, expect to get the outlay back again with a fair return for their risk and capital at a future day, and, in this instance, stand a very good chance of not being disappointed in their expectations.

A MATTER OF BUSINESS.

"Under the circumstances the first object is to produce, in a safe and healthy form, the largest possible quantity of the higher class of food, for which we must depend on our own resources." And, again, "We must have a large increase of our flocks and herds in these islands, in order to secure a supply that can be depended upon, unless we persuade our working classes to give up their acquired tastes, and leave beef and mutton to their betters. This we shall not do in a hurry." So says *The Times*, and says well, in an article on the recent outbreak of the rinderpest in Yorkshire, as it is becoming more and more evident to every one that the more the country can be brought to rely on its own resources for the supplies of animal food the better will it be alike for the in-

terests of producer and consumer. And how to effect this? At a meeting of a Scotch Farmers' Club, also within the last few days, Mr. Frier, the chief speaker, said: "In the use of foreign foods for the feeding of his stock, the farmer must in the mixing of these and in the using of them as auxiliaries to his own, find the most economical at given prices, or what will produce the largest amount of flesh and fat at least cost to himself; always bearing in mind that if at the marketable value of the lean stock, and at the cost of his extraneous foods, with the price that he gets for his fat, he has at once a direct profit, he is adding 20 per cent. of his outlay to his capital in the soil by the residue left in the manure of the animals." And Mr. Frier said further, "The agriculture of

this country will now go slowly on till the inducements for emigration held out by the various colonies are lessened, from the price of labour being better equalised with other parts of the world. The insecurity of capital invested in agriculture and the slow and inadequate returns derived from it, as compared with general investments in the commercial world, no doubt partly arises from the want of Tenant-Right, and also from the extremely unsatisfactory state of the Game and other land laws." Then, still within the last few days, at Stourbridge, in Worcestershire, a county which he represents in Parliament, Sir John Pakington said that "The time was coming for the serious consideration of the question of the tenure of land as between the owner and occupier of the soil. It was a question of great magnitude, into which he could not enter then; but while great progress was being made in agriculture, and they saw more and more that it was becoming an important profession and a great science, he felt more and more convinced that those who entered upon the cultivation of the soil must do so for their own interest and for the interest of those who owned the soil, more upon commercial, and less upon terms of a feudal character." Here we have the three great interests in this business wonderfully well agreed. *The Times* says, on behalf of the people, that to keep us safe the great object must be to produce more high class food, and encourage a large increase in the flocks and herds in these islands. Mr. Frier, for the farmer, says that if more beef and mutton is grown a greater outlay of capital is incurred, as that Tenant-Right must be established, and the land laws amended. And Sir John Pakington, for the landlords, says precisely the same as that which Mr. Frier does for the tenants—there must be a more business-like arrangement between the two contracting parties.

Here, however, this highly desirable unanimity comes abruptly enough to an end. *The Times* is very desirous that the tenant should do more by his acreage, increase his expenditure in a word, but *not* upon better terms. Seldom has abuse, indeed, ever exceeded that heaped upon the head of Sir John Pakington when he ventured to state that the tenure of land should be regarded as a commercial transaction: "His enigmas are intended to puzzle, his predictions to raise a pleasant conflict of hopes and fears somewhere or other. Broadly and generally, Sir John announces the early arrival of an age in which all the relations of property and society will be established and regulated on sound commercial principles—by the rules of arithmetic applied to pounds, shillings, and pence." Very good; as so far this sounds the rather like sound common sense than anything very puzzling or conflicting. Again, "All the feudal elements, and of course, too, all social regard and political understanding, as we understand Sir John Pakington, are to disappear between the landlord and the tenant. The latter farms a manufactory of cattle and corn and other produce; he pays what he can, and makes what he can, and all he has to do with the landlord is to hand over the stipulated rent as soon as it is due, and to keep the premises in order. Nothing like a clear understanding in these things." This is probably intended for refined irony, although in point of fact a very desirable state of things to arrive at. Surely, there can be nothing better than "a clear understanding," to any bargain between any people in any class; and why, as inferred, this should tend to destroy all "social regard" seems to be simply incomprehensible. If by "social regard" *The Times* would imply, although it does not dare to say so much, "abject dependence," then we say "there is nothing like a clear understanding;" just as "the political understanding" of the good old feudal times, when the tenants were sent in droves to the poll, must give way to a clear understanding. And then, of course, we get on

to the old stale story of land being a luxury; *The Times* putting it delicately in this way: "Up to the present time land has been a power, and the landed aristocracy might claim the privileges of a position the duties of which they are so willing to discharge. When a man gets next to nothing from his property he may suppose his connexion with it to be somewhat transcendental, and may expect a sort of worship in place of sordid coin. Such illusions are now, we are told, of the past. Perhaps the Ballot has finally dispelled them. It is all now to be a question of money. The Labourer who takes his sinews to market, the Farmer who takes his money and skill, the Proprietor who takes his acres and the plant upon them, are in the same case. All they have now to ask for is a fair field and no favour." This, no doubt, is considered very withering, but if the landed aristocracy does not wish to be left behind, it must give this fair field, or, as Sir John says, must go "more for commercial and less upon terms of a feudal character." The landlord, who in this age "expects a sort of worship instead of solid coin," is simply an incubus, a drag-chain, an incumbrance on the soil, preventing it being turned to its best use. A man who in this age "gets next to nothing for his property" will generally be found to be *incompetent* to deal with it, feeble in mind or hampered in estate. As Mr. Frier said so admirably and so boldly at the Gala Water Club: "A great proportion of the landed proprietors of this country have done little or nothing for the advancement of agriculture. Land as an investment is considered one of slow returns, as certainly it is; but the owners of land for the last forty years have assuredly no reason to complain. Landed property that was purchased at a fair market rate some forty years ago has in many instances, where money was judiciously invested in improvements, given two or even three times the rents then current, and that often entirely from the expenditure of the tenant's own capital in drainage, in the use of extraneous manures, and foreign foods; so that these men, who probably bought their land to yield them three per cent., are now in the receipt of nine per cent. for their money. While many landlords discharge their duties as such in a most creditable manner, too many of them—and these, unfortunately the largest entailed proprietors in the country—are utterly indifferent either to their property or the interests of their tenants, and leave the administration of their estates to parties from whom the only qualification asked or appreciated is that of being able and willing to extort the maximum immediate return which can be got out of the land."

If the farmers in England would only speak out in this way, instead of trimming as some of them do when they see a landlord in the room, we should hear little more of the absurdities put forth as arguments by *The Times* newspaper. If there were a clear understanding, if the soil were made to yield more produce, and the landlord to receive more rent—what then? And it is thus that *The Times* foreshadows the terrible consequences: "One naturally asks with curiosity and misgiving where the Landlord is to be all this time. He has hitherto been still part of the social group, expected, asked for, and sometimes freely criticized for what he does, or fails to do. Is the Landlord of the future to live in town, or abroad, or in his yacht, or nobody knows or cares where? Is he to live in the country surrounded by persons owing him nothing but money? Is he to take one of his own farms and be his own food manufacturer? It is one of the few remaining beliefs of this country that a Landlord by his very presence, and by all that presence necessarily implies, is an advantage to the neighbourhood." Was there ever such outrageous nonsense as this! Let us only answer it by the lessons of experience and precedent. The Irish landlord came to "live in town, or

abroad, or in his yacht, or nobody knows where," and sank into a confirmed absentee, because when at home he was commonly "surrounded by persons"—to whom he owed money. And on the like showing the English landlord is to become an absentee, because with better rents the chances are he would be surrounded by persons to whom he owed nothing! Let *The Times* turn to the English peerage or baronetage and count up the heads of families now living abroad, or in yachts, or anywhere, and then proceed to ascertain why they do so. Our contemporary will find that "social regard" and "political understanding" and "a sort of worship" has little or nothing to do with the cause, but

that this is essentially "a commercial transaction." The absentee's estates are badly managed, and his rents not sufficient to admit of his "discharging the duties of his position." When, however, as Sir John Pakington says, the landowner sees that it is all to his own interest to treat more upon commercial and less upon terms of a feudal character, the probabilities are that he will find a permanent residence on his own property a deal pleasanter than he might do at present. And if we are to produce more food, and increase our flocks and herds, we shall do so not after the stand-still policy of *The Times* with its social, political, and hero-worship traditions, but by treating the thing strictly as a matter of business.

AFTER-DINNER TABLE TALK.

At Lancaster, the President, Mr. J. P. C. STARKIE, M.P., said: Mr. Fawcett, the great political economist of the day, had acknowledged at Brighton that he did not see how to get down the price of labour or the price of meat. Those ignorant of the real state of things put it down to the obstinacy of one of two classes, the farmer or the landowner, or both. But what was the fact? England was circumscribed in her dimensions, and her population was constantly increasing; people could eat meat, but they could not provide more land for growing it. It was purely a case of supply and demand, and as long as they had a meat-eating population, which was increasing on their hands while the land could not be increased, they would have the difficulty before them. The increased demand made the raw material dearer, consequently the perfected article was also dearer. The cattle were so much subject to epidemic, and this was also a cause operating against them, and though it was not so much felt in Lancashire and Cheshire since 1869, no less than 76,000 head of cattle had been attacked by the disease. It was certainly not considered deadly in its effects, but it was not pleasant to know your whole stock was affected with it. About 100 cattle belonging chiefly to his neighbours a week or two ago were all affected by the disease, and he could have wished to have had some of those ladies who were spouting on tubs the other day on a visit just to have seen the state the animals were in, and it would have taught them a useful lesson, and they would have had a little more sympathy with the tenant-farmer and landowner. As for the disease itself he attributed it to the increased means of transit, animals being now brought over from other countries in a few hours, even from the steppes of Russia, where the disease existed all the year round. He believed they were indebted to old Ireland for the foot-and-mouth disease, the Irish cattle having been traced from those landing at Morecambe to the inner parts of the country. They certainly could not expect meat to be cheaper, and he could not encourage the hope so delusively held out that they would be able to get the choicest cuts of beef for 7d. per lb. He might be wrong in his notions of political economy, but he did not see how they could alter the present state of things unless they would kindly cease eating altogether. To speak more immediately of the toast, the Royal North Lancashire Agricultural Society was founded in Lancaster in 1847—25 years ago—for the purpose of promoting a better breed of stock, and to enable agriculturists to see the stock of their neighbours, and also to have animals brought to market in less time than in the old days. There was no doubt whatever but that agricultural societies had served a most important part in the country, and had realised the most sanguine hopes that had ever been entertained of them. They had so improved the breed of the cow, the sheep, and the pig, that it would be utterly impossible ever to get it back again to its original condition. All this had been done by the enterprising tenant-farmer and landowner, for none other could have wrestled with the subject. They had now got to such a pitch of perfection in stock that it was hardly possible to improve upon it, but he considered that in agricultural implements they were not yet as perfect as they might be. It was absolutely essential that they should have a supply of excellent agricultural implements, and they must have them

by reason of the dearth in the labour market. Mechanical labour was the great desideratum of the farmer, and he expected that mechanical labour would effect for agriculture what it had done in other respects in other trades. He instanced the coal-getting machine of Mr. Pease of Durham, which it was said would so effectually supersede manual labour as to get 70 tons of coal per hour. Farmers must, therefore, apply themselves to the subject of mechanical labour, for this seemed to be about the only matter which required their immediate attention. The agricultural societies of the country had done a great deal of good, and the Royal North Lancashire had been essentially serviceable in its district, and deserved greater support than it received. It was a society well worthy of their consideration and support, and he should like to see it receive more support from the public. They had arrived at a certain degree of efficiency with regard to stock, and in a less degree, perhaps, the remark applied to implements, and he thought their next duty was to try and get the farms themselves in a proper state to keep their stock healthy and in a creditable condition. It was no use having fine animals unless they could get something to give them during the cold days between the 1st January and the 31st March; and with the view of promoting good farming he had taken the liberty of offering a prize for the best 50 acre farm. He did hope to see an improvement in their farms. The tenant must do something, and the landlord must help him, and by this means they would be able to carry out improvements. A good tenant would serve his own interests and his landlord's too, and would do what he could to make his farm look decent, to keep his fences in order, his gates in repair, and his farm-buildings free from slovenliness. He wished there should be no mistake as to his meaning. This neglect was not intentional, it was in too many cases bred into the farmer; they did not understand it, but he hoped they would. If a landlord in going round saw that a tenant kept his farm in an orderly and tidy condition, he must be a wretched man indeed if he did not rejoice at the sight.

The Right Hon. Colonel WILSON PATTEN, referring to the question of the disputes between capital and labour, said it was one of the most important subjects Parliament had to consider; and when he said that, he did not wish it to be supposed that they had not already enough to occupy their attention. Both himself and his colleagues had their strength pretty well tried in the House of Commons last session. There was one feature of these disputes between capital and labour which he had often thought he should become an advocate for. The trades agitated for nine hours labour a day, and ninepence an hour. Now, he had thought of going in for the nine hours labour, though he was content to drop the ninepence per hour. They had had a good deal more than nine hours a day in Parliament on many occasions. On the last day of the session he was in the House thirteen hours from the time he entered it to the time he left it. This question between capital and labour was a very important one, and he hoped and trusted that intelligence and forbearance of the people, and intelligent discussions of the relative merits of the matters in dispute, would enable them to arrive at a just conclusion of the respective duties of capitalists and labourers.

He could only say for himself; and though he appeared to be engaged in a work, requiring a considerable amount of labour, he had not had any turning out; they had commenced negotiations with himself about the increased value of labour, and had come to terms in the most friendly way, and he believed that this had been the case throughout this county generally. He was sorry a like spirit had not prevailed in some other counties, and that disputes had arisen, the effects of which would be felt in years to come. He promised that the subject should receive his best attention, but he reminded the audience at the same time that it was one thing to make a promise of that kind and another to solve the difficulty. It was easy to make professions, but the difficulty was to satisfactorily adjust the matters in dispute. He only wished that some of the leaders in these movements would act more up to their professions than they did. When the matter came before them in Parliament his best judgment would be applied to the solution of the difficulty; but when a man was past 70 years of age, as he was, they would agree with him that he was not so well able to engage in work as when he was 25 years of age, when he first took charge of their interests in Parliament.

Mr. TROTTER (Newcastle-on-Tyne), one of the judges of implements, did not believe in a man working from six o'clock in the morning to six at night. He thought workmen were quite justified in getting shorter hours, and trying to improve their condition.

Mr. GOODWIN, one of the judges of horses, said when he came to Lancaster he did not expect to see such a nice quality of animals; there were one or two mares that would be a credit to Yorkshire, or to the best breeding counties. There were some young horses which he considered, if not exactly perfection, were getting on that way, although there were some rough ones; but they were to be found wherever they went. Lancashire farmers could not do better than use the thorough-bred horses which the landlords provided for them, and they would have some excellent stock for riding and driving. He was glad to hear the remarks of the Chairman with respect to the landlords co-operating with their tenants to effect improvements on their farms. He thought if landlords would do this, and take more interest in their property, a much better feeling would exist between landlords and tenants. He was very glad they had taken up this question in the north, as most good things came from the north, and he hoped that the sentiments expressed by the Chairman would go forth to the landlords of England, and that they would take their cue from it.

Mr. W. J. GARNETT said it was all very well to breed stock and have first-class implements, but if they could not keep up their land in good condition their stock must suffer, and to get it up they must restore that which they took from it. If the towns did not do this the agricultural interest must do it for themselves. The modern system of draining towns was one of the greatest abominations which existed in this country, and he did hope that in a short time the agricultural interest would be awakened to the importance of the question. If they could not increase the area of the country they could increase the farm produce. If the towns did not see to this the agricultural interest must do so. The results of certain experiments he had tried with liquid sewage were beyond his most sanguine expectations.

Mr. SAUNDERS expressed his conviction that this country was on the edge of a precipice, and he feared that they were half over it. At the same time, he admitted that the question revolved itself into one of political economy, it was as Cobbett would have put it, a question of supply and demand. If two men went to one master, then the latter could dictate his terms, but if the case was reversed then the men would command the situation. He had not the slightest objection to men getting the highest price they could for their labour, and God forbid that any man should interfere with him; but on the other side, it was urged that there were men who caballed together, and who had what was called "the gift of gab," who incited men to strikes, and bred discontent in their minds, and brought ruin on many families. He warned working men against being led away by agitators, and especially warned them against the men who advocated the removal of the restrictions on the importation of cattle.

At Stourbridge Sir JOHN PAKINGTON, M.P., did not shrink from saying that the time was coming for the serious con-

sideration of the question of the tenure of land as between the owner and occupier of the soil. It was a question of great magnitude into which he could not enter then; but while great progress was being made in agriculture, and they saw more and more that it was becoming an important profession and a great science, he felt more and more convinced that those who entered upon the cultivation of the soil must do so for their own interest and for the interest of those who owned the soil, more upon commercial, and less upon terms of a feudal character. The question of the agricultural labourer was one which should be fairly met. His strong belief was that if this were done the agitator would appeal to him in vain. They should remember that provisions were now dear, that fuel was dear, and they must remember that under those regulations providing for the improved condition of the masses of the people the labourer would, in many instances, not be able to augment his earnings by the earnings of his children to the extent he had hitherto. He wished they could see the agricultural labourer occupying a better home and obtaining better food at more reasonable rates. He had been accused of holding forth that these things might be done by the action of Parliament. He had never done so. He felt as strongly as any man that in this free country men of all classes must depend mainly for their prosperity on their own individual exertions; but he believed that it was in the power of Parliament materially to assist and promote such objects by judicious legislation. After his long experience in Parliament it would be to him a source of satisfaction to see more of their time devoted to those objects so essential to the welfare of those around them, and less of it to those party struggles in which they were all so apt to waste their time. He advised landowners, land occupiers, and labourers to hold together. They might depend upon it that was what their interest mainly required. He said emphatically, let them hold together, and cordially join in promoting whatever might conduce to the improvement of the agriculture and the welfare of those classes who were engaged in it.

Mr. R. P. CAMPBELL, M.P.; with regard to the unfair pressure of local taxation, believed the time was arriving when that injustice would be removed; but they might have had to wait long for a redress of that grievance, if it had not been for the pressure and force brought to bear by Chambers of Agriculture on political parties in this country. After the large majority which was obtained in the House of Commons on that subject, and obtained over a powerful Government which had boasted a majority of 100, the subject could not be neglected, and he had no doubt in the next Session of Parliament the Prime Minister would redeem the pledge which, he believed, he gave under the pressure of that majority, that the subject should be considered. He hoped they were not going to be diverted from that subject by questions regarding landlord and tenant. Let them first get a fair rating of all property, and landlord and tenant could then agree how they should bear the burdens, and what their future relations should be.

Mr. W. F. KNIGHT, M.P., cautioned the farmers that if they did not ride steadily home they would stand a chance of being sent to prison for a month without appeal. There were many other things done by Parliament which farmers would grumble at. Before he reached England the House of Commons passed a resolution that no single interest was to be overweighted with taxes. Yet Parliament passed the Public Health Act, which would burden the agricultural interest more than a dozen Acts passed before. He confessed that attention to public health was desirable, but the personal liberty which came down to them from their Anglo-Saxon forefathers was still more important. He did not agree with a great deal which was said about public health, and at the present time he thought the old proverb might be altered to *Sanitas sanitatum, omnia "insonitas."*

LORD BEAUCHAMP said, at a dinner given to his tenants, as they were met together as landlord and tenants, he wished to say a few words regarding an important question that affected the agricultural interest, he meant the great question now raised between the employer and the employed. He did not believe that the fortunes of the agricultural labourer were so bad as the professional agitators said they were. He believed that the labourers living in the villages in that district, with the many perquisites and advantages which in youth and old age they received, and which could not be exactly stated,

were much better off than the working men in our large towns, and that the wages of the one could not be measured with the wages of the other. There was another point to which he wished to direct their earnest attention; he did so because in this instance he could quote his own humble experience; he referred to the part payment of wages in drink. It was obvious to any one who considered, and he was not one who took a teetotal view, that it was difficult for an agricultural labourer to do his work without a proper amount of alcohol. The result of his experience was that if they left the agricultural labourer to determine what that proportion should be they would be doing a great kindness to him and his family, and securing a great benefit to themselves as employers of labour. It was now some three or four years since he adopted a money payment with respect to drink, and left it to the labourer himself to decide what drink he required from the cider that he made. The result was that the labourer had drunk very much less than formerly, he had done much more work, and his employer had very much more fruit and cider to sell than he ever had before. His advice to the farmers was, if individuals who did not hold an acre of land, and whose acquaintance with agricultural matters was only a theoretical one, should come into that neighbourhood and try to stir up dissatisfaction among the labourers, let them take no notice of such people. When the harvest was ended, and the short days of winter set in, and the high price of coal and fuel was felt, the labourer would then know who were his real friends.

At Bury, Lancashire, Lord DERBY, the chairman, said he supposed that all the industrial communities of this country were just now in a position which had hardly any precedent—at least not in recent history. We were over-done with, and inconvenienced by, the very superabundance of our own prosperity. Make as many reductions as they pleased and he quite admitted that very considerable reductions ought to be made for the depreciated value of money, he apprehended that there was nothing in our recent history like the growth of trade and manufactures, and of industry and the increase of public wealth which had taken place within the last half-dozen years. It was rather a good lesson against hasty prophecies to look back, say, to July or to August, 1856, just after the great commercial crisis of that year had taken place, and to remember the lamentations which went up from every quarter about the ruin of our trade, and the probability that we should never again hold the position which we formerly had done. Well, what actually happened? We had, no doubt, had one or two very bad years, but our imports in the last year (1871) stood at £330,000,000 against £271,000,000 in 1865, and our exports had increased in a still greater proportion. He might also point out, whilst he was a boy people were continually publishing good little books warning landowners and capitalists, and rich people generally, of the duty of giving employment to the ordinary population, whereas now we were in exactly a contrary position. We had two masters for one man, and, as a consequence, we had in every department of industry—including the agricultural industry—a very general and a very extensive rise in wages. That rise of wages was one of the most remarkable industrial facts of our time, and probably they would expect him to say a word or two upon it. It was a matter which we must look at if we could in a dispassionate manner. Masters had a right to get their labour as cheaply as they could, and employes on the other hand had a right to sell their labour as dearly as they could, and both classes had a perfect legal and moral right to combine for their several purposes, provided always that in so doing they did not molest or annoy those who refused to join them. He thought that when any set of men saw their way to an extra 2s. or 3s. or 4s. per week, or what was the same thing, a diminution of their hours of labour without a corresponding diminution of wages, it was not reasonably to be expected that they should give up their chance of securing these advantages merely from a speculative and doubtful consideration of what might be the effect in the long run upon manufactures or upon agriculture. Each, he thought, did the best they could for themselves, and those who complained would probably do the same in their place. But then came the question—Was it quite certain that they would always have the power which they at present seemed to possess? Was it not doubtful, to say the least, whether this enormous and altogether unprecedented demand for all kinds of labour would continue at its

present rate. He spoke with great diffidence upon a subject upon which his knowledge was mainly at second-hand; but he believed that most practical men engaged in any kind of business would say that the pace lately had been too good to last, and that after the run of prosperity we had had during the last three or four years, a reaction must follow as surely as night succeeded day, and that we should be lucky if that crash came upon us in a slow and gradual manner, instead of coming with the ruinous suddenness and violence of the crash of 1866. We used to say that there were three things which would not fail us for a long time—cheap coal, cheap iron, and skilled labour—which, in quality and abundance, could not be equalled elsewhere. Coal and iron were as plentiful as ever, but they certainly were not cheap now, nor were they likely to be for some time to come; and as for skilled labour, we must not conceal from ourselves that in that respect we were being competed with by foreign nations to a very much greater extent than hitherto. We could not escape from the facts merely by ignoring them and refusing to acknowledge them. If there was any truth or meaning in these laws, dear labour must lead to diminished consumption; diminished consumption would tend to check production; diminished production would in its turn cause a decrease in the demand for labour, and so, unless other causes interfered, the tendency of wages would be to fall again—he did not say to, but towards, their old level. Taking the matter in another light, the simple explanation of the economical state of things which we saw around us was, that the demand for labourers in all industrial pursuits at present greatly exceeded the supply. Suppose, for argument's sake, that a million, or even half a million, of working men could be suddenly added to the population, he apprehended that in that case they would see within a few weeks, or even days, a rapid change. There would be no more talk about strikes, and no more demands for higher rates of wages. Of course the increase of population could not at once happen, but it was a question whether it would not take place in a few years. Judged by former experience in England, large wages among the labouring population had inevitably brought about early marriages, and, consequently, an increase in the number of births. Probably the same causes would still have the same effect. In addition to that, the tendency to greater comforts being obtained by the poorer classes would be to check that emigration which was now taking place to foreign countries. With the growth of those sanitary improvements which they all talked about, and which many of them believed in, they would have a great diminution in infant mortality amongst the working classes, and, as many of them knew, that mortality, at least in great towns, is at present very excessive. Again, as in the United States and in the colonies, they would probably have in many branches of industry that which he referred to before—an increased foreign competition; and in some rural districts at least it seemed to him the advanced rate of wages were not unlikely to lead now, as they had led 300 years ago, to a considerable substitution of pasture for tillage, especially if the price of meat continued at anything like its present rate. He asked them to bear these things in mind, and he thought they would agree with him that it was at least uncertain whether the present condition of the labour market could be assumed to be permanent. The practical inference he drew was this: If that was a matter of doubt, those who might have, or might seem to have, the command of the market now in their hands would do well to use their power with moderation, and those who were now inclined to complain and to despond would do well if they thought twice before they gave up the game. If he were talking there to agricultural labourers meditating either a strike or a demand for considerably increased rates of pay, he should try to impress upon them, in their own interest, that it did not necessarily follow because they could pretty well make their own terms in harvest time that, therefore, they would be equally able to do so in the winter months. He would remind them that they could not at the same time stand upon their extreme rights and extort from their employers things which were not a matter of bargain, but of favour. If, on the other hand, he were addressing employers, he would tell them that the principle of competition in life, and the very essence of competition, was that every man, within certain recognised limits, had a right to struggle for his own success, even at the expense of inconvenience or failure to others. That being so, they had no right to find fault or complain of

the men whom they employed, for trying to better their condition. But he should go on to say that, assuming that the present demands made upon them were excessive, there were perfectly legitimate and unobjectionable ways in which these demands might be met. He saw in one of the papers the other day an account of a meeting of a large number of persons in some of these northern towns, who, thinking the price of butchers' meat unreasonably high, agreed to abstain from use of meat for a considerable period, unless, indeed, meanwhile the price should have come down. He did not know whether those people kept their engagement, or whether they were likely to keep it, but he did know this, that wastefulness was one of our great English faults. There was in almost everybody's expenditure, about the very poorest class, a great deal in regard to which retrenchment was always possible, and, being possible, was always wise. If, for instance, bread were at famine prices, then the richest persons would feel it incumbent upon them not to use more bread than was absolutely necessary. If labour was at famine prices, let them reserve it as far as they could for necessary use. That was undoubtedly right; and if exercised, it would to a great extent break the force and lessen the violence of the movement, which they were all watching with various feelings—some with feelings of fear, some with feelings of hope—but which they could not doubt must affect in a serious degree our national interests. Let them understand that in what he had said to them he was not prejudging that very large question of what agricultural wages or any other kind of wages might be. That was a matter the decision of which did not lie within the control of any of them. It depended upon the action of social and economical forces which no individual could fix permanently in a more than infinitesimal degree; but he said this—that all sudden changes, whether they were for better or for worse, were apt to press severely upon individuals and upon classes. If this movement was not likely to be permanent, then a certain check put upon it only prevented a great deal of disappointment. If, on the other hand, it was likely to be permanent, then one effect would be that none of them would be much the worse for having a little time, a little leisure, to prepare themselves for the new state of things they were about to encounter. The question was one of deep interest, and, as far as he could see, it was a question which they were likely to be discussing not only now, but upon a great many future occasions.

At Brighton Dr. EDWARD SMITH, F.R.S., a Poor Law Inspector on the Local Government Board, said that the large proportions to which the consumption of preserved foods had attained rendered it most desirable that the public should understand their value both in the pecuniary and nutritive aspects of the question. There were several difficulties in the way of this, for time had not permitted the unscientific to judge of these products by experience, while their composition was not a fixed and known quality, but variable, and could be determined only by chymical analysis. Hence it could not be surprising that there was much ignorance and even misconception on the subject, and in offering his own knowledge he should do so, he said, in a summary rather than in a detailed manner. Speaking on preserved milk, which was made in England, Switzerland, and America, he first described the manufacture of that made in America and sold in England, and then pointed out that one pint of the produce represented four pints of milk. Four pints of milk would cost, according to locality, from 4d. to 8d., but the "pint tin" of preserved milk held only 16 ounces, and not a pint, which was equal to 20 ounces, and, making allowance for the sugar which was added to the preserved milk, the weight of the preserved milk was about 14 ounces, or two-thirds of a pint, and represented a value of 2½d. or 6½d., according to locality; but the price of the tin of preserved milk was 10d. or 1s., and therefore was not an economical but a dear food. It was, however, he said, a useful invention, in so far as it added to the food of man that which in many localities would otherwise be given to the pigs; and there was every reason to believe that it was most profitable to the manufacturer. Another point he drew attention to was that, as sugar was cheaper than preserved milk, and had different and inferior properties, according to the quantity used would the milk value of the compound be reduced, and the temptation to the manufacturer was to use the maximum quantity. The Aylesbury milk con-

tained two ounces in the pound, or 12½ per cent., and it was said that there were other kinds which contained three ounces, or nearly 20 per cent. of sugar. It was possible to prepare the "condensed milk," not only with wholly new milk, but with skimmed milk, and with a mixture of the two—skimmed and new. The latter was said to produce the "smoothest" and best preserved milk, and there could be no doubt that a considerable proportion of the cream was first taken from the milk to be pressed in order to make butter. Therefore the product, though of value, was not new milk, and as in the important use of milk—the feeding of infants and young children—the fat was as necessary to nutrition as the caseine and other elements, new unskimmed milk, and not "preserved" milk, was required. It was a significant fact, he added, that the milk-condensing companies were also butter-makers on a large scale, and competition doubtless would show itself in these directions—increased proportion of water and sugar, and lessened proportion of cream and butter. He closed his remarks on this portion of the subject by pointing out that in preserved milk we have a product of uncertain composition and nutritious value. The preserved meat brought under consideration was that now so widely known as the Australian. He described the process of preservation, and stated that six pounds of raw meat, with a proportion of fat, were placed in a tin, which was put into a bath of chloride of calcium, and exposed to a temperature higher than that of boiling water—namely, from 230 deg. to 250 deg. The tin was soldered and closed except at one point, where there was a hole through which the steam escaped. The object to be obtained was primarily the expulsion of the air from the tin, and therefore the high temperature was required; and secondly, the cooking of the meat, which, however, might be effected at a much lower temperature. The tin, to prevent too great loss of weight, was "primed" from time to time, so as to keep up the weight of the contents. The circumstances to be remarked in the process were—first, that the meat was neither roasted nor boiled, but stewed in its own vapour; second, that it was overcooked, so that a larger proportion of the soluble materials was extracted than occurred in the ordinary process of boiling, and the solid part was more or less broken up into bundles of fibres; third, the extracted juices were more valuable than from ordinary boiling of meat, and by so much the solid mass was less valuable than ordinary boiled meat; fourth, the peculiar flavour was given partially by the mode of cooking, but chiefly by the addition of the flavour of roasted meat, which was agreeable. The solid matter, although soft, was not easily masticated, since it eluded the grasp of the teeth, and without free mastication it was less perfectly digested. The conclusions to be deduced were classed under different heads. The nutritive value of the whole of the contents of the tin could not be greater than that of the raw meat put into the tin; and hence, although the meat was cooked, the comparison of the value must be with raw meat, and not with cooked meat. If, therefore, a dietary was 4 ounces of cooked meat, the Australian meat would have to be supplied in the same quantity as the raw meat in weight before being cooked—namely, 5½ ounces to 6 ounces. He also held that the Australian beast was not equal to the English beast. The pecuniary aspect of the question showed that there was manifestly an advantage to the Australian producer, since he could by this process make larger returns than by boiling down the carcasses of animals for the production of tallow and fat, and so far the wealth of the colonies was increased. Moreover, the process added to the amount of food for man, and so far must be of universal advantage. As to the English consumer, taking beef supplied to institutions as at 7d. and 7½d. a pound, he thought there was little gain in the use of the Australian tin meat in those cases, but there was a gain to the individual consumer who had to pay more to the butcher for his meat in this country. He advised that the recommendations laid down by the original importers of the meats should be adhered to in respect of not cooking the meat further than by preparing it in a stew or soup, without more than warming it, and to use it only as a change of food. Respecting Liebig's extract of meat, he pointed out that it was claimed for this that one pound jar represented 32lb. of flesh meat. Its composition was water, and, in large quantity, the salt of meat and the phosphates. It contained only the soluble parts of meat, and only such as could be preserved from putrefaction. The fi-

brine or solid substance of the meat was excluded, for that was insoluble in water. The fat was excluded most carefully, as it would become rancid. Gelatine and albumen were excluded, because they would decompose. When, therefore, fibrine, gelatine, and albumen were excluded, it was certainly not "meat" which was left, as the word was understood, for nearly every part of the meat which could be transformed in the body and act as food was excluded; therefore, Liebig's extract of meat was not meat, and to give the meat power the 32lb. of meat from which it was said to be taken must be added to it, for as it was it was the play of Hamlet without the character of Hamlet. The product was of less value to the consumer than to the producer, and the preparation was a delusive rather than a real advantage; but although he said this, he held that it had a value as a stimulant in the same way as theine or caffeine, but its economic value was very small as representing 32lb. of meat in a 1-lb. jar. There had been much misconception respecting the product, for Liebig never affirmed that it was meat, or the equivalent of meat.

At Rickmansworth, Lord Ebury said: All old labourers anticipated "a good time coming," and at last it has come. There has been an agitation from North to South of the country, and I am happy to say the result has been that the wages of the agricultural labourer are very likely to become greater than they were, and the fact is they have already risen. Some people have thought that because the wages of labourers are higher the change has come a good deal too late, and it was a mistake they were not raised before. They make a great mistake in thinking so. The value of labour is regulated by what you can get for it. But the truth is, the augmentation in the wages of the labourer has risen from the immense development of manufactures and commerce, which must be kept up. You will find other people, in order to do this, are ready to give more money for labour; and if you want the best labourer you must give the best wages. That is the state of the case. I will not, however, say any more than this. I have not the least objection in the world to labourers forming a union—not the slightest; but what I want to warn them of is this: If you are tolerably comfortable where you are, if you have your wages paid regularly all the year round, if you have a good master—whether an honest farmer or a possessor of land—reflect a little, for this reason—don't surrender your own independence. The moment you enter a union your independence is gone, you surrender it into the hands of the leaders of the union, and you may be called upon to strike when you would be very sorry to quit your master.

At Glynde, Mr. BRAND, the speaker, said: About three years ago, when we assembled in this tent, I called the attention of the young boys in my employ to the necessity for those who could not then read and write, and who wished to remain in my service, to learn to do so at once; and I warned them that unless they did so they would not continue in my service. I am happy to find that that warning has produced a good effect, and I intend to adhere to the principle that all boys who wish to be employed by me must learn to read and write before they can receive wages. Now, I suppose that in these times, when there is so much talk about the rate of wages, you will hardly think I am doing my duty if I do not say something in reference to the agitation which is going on throughout the kingdom. My opinion is we shall never have a satisfactory settlement of the question until the labourer receives in some shape or other a share, though it may be a small one, of the profit of the business in which he is engaged. I refer not only to those employed upon farms, but to those engaged in mining, in manufactures, and in trades of all kinds. But, you will say, how is the labourer to derive any share of the profits of farming when he has no capital? Well, it is quite true that you have no capital beyond your labour, but what is capital? Capital is nothing more nor less than labour husbanded. Now, if you could save any money, however small the amount, and could invest it in carrying on a farm, I think, according to the sum so invested, you would be entitled to a share in the profits of that farm. I will give you a practical illustration of what I mean. Some of you, I dare say, are fortunate enough to have a few pounds in the savings bank, and I believe the savings bank limits the interest paid on the investments to $2\frac{1}{2}$ per cent. Now, I will make a proposition to you, and to all in my employ. If you

have got £5, we will say, in the savings bank, and you would like to lend that to my farming business, I will engage to give you, as the savings bank does, $2\frac{1}{2}$ per cent. for the money. And I will do more than that, I will, supposing the profits of the farm amount to more than $2\frac{1}{2}$ per cent. upon the money I have invested, I will give you rateably precisely the same interest upon the capital you lend me. That is to say, supposing I get 10 per cent. as profit on the capital I have invested on the farm, you shall have 10 per cent. on your £5 instead of $2\frac{1}{2}$. So you see you will be in this position—that you will never get less than the $2\frac{1}{2}$ per cent. you receive at present, and if the farm yields more you will have the benefit of it. Some will probably say, "How am I to get the £5?" Well, we know it does not rain £5 notes, but I will suggest to those who have not that amount in hand that they should lay by so much a week. The rate of pay to the boys is from 3s. 6d. to 4s. per week, and the wages increase according to the ability to work. The carters, shepherds, &c., for instance, receive about 15s. per week, and out of this it seems to me it is by no means impossible that some may save 2s. a week; and if you pay me that sum I will engage, at the end of the year, to pay you the £5, if you desire it, *plus* $2\frac{1}{2}$ per cent., or whatever higher rate of interest arises from the year's farming operations. I am quite sure of this, that we shall never come to a satisfactory settlement of the relations between employer and employed until the latter, according to the amount of labour and capital he has invested, has an interest in the good conduct of the concern. My sole object is to give you a personal pecuniary interest in the conduct of the farm, and to endeavour to raise you a little above the position you now occupy as labourers.

At Skipton, Lord F. CAVENTISH, M.P., said there were two matters which occurred to him upon which he might make a few remarks. One was a satisfactory one to farmers—he meant the high price of meat. The other, perhaps, was not equally cheerful—it was the high rate of wages. But he believed the two were more closely connected than many seemed to think. There was one cause for the high price of meat which was brought home to many on the show field. They saw in the absence of stock the effect of the immense amount of disease now raging amongst cattle. It would be a good custom, which he should like to see established at such gatherings, if those knowing something about practical agriculture were to speak to them instead of those who practically knew nothing of it. He thought they might have had a useful and instructive evening by hearing practical opinions as to the cause of the foot-and-mouth disease, which was making such havoc. Was it a contagious disease, or was it not, and could it be got rid of and checked by prohibiting the removal of cattle? He asked them the question as farmers. If they thought it was a contagious disease to be got rid of, they could, by enforcing the law as it now stood, obtain that extinction. If they thought the disease was such a gigantic evil as to require the heroic remedy of stamping out, he believed the Government would join them in doing so; but if they believed that it was an epidemic such as scarlet fever, then, perhaps, these remedies were out of place, and might only create mischief, without attaining any good results. He thought they might say that legislation as far as it had gone had had great success. He was looking the other day at a report of the Veterinary Department of the Privy Council, and he saw that last year there had been one of the worst visitations of rinderpest ever experienced on the Continent. Now, the Continent was not very far from the shores of England; the disease had created great ravages among the cattle in the northern provinces of France, and yet it had never obtained a footing on our shores. People who complained of the restrictions on the importation of cattle ought to consider this, for not only did rinderpest destroy our cattle, but it did a vast amount of mischief by preventing farmers from extending their stocks, or it induced them to reduce them. If they could create in the minds of farmers a sense of security against this evil they would do something towards removing the evil which they deplored. It had been stated that the number of cattle imported from Ireland this year was larger than from the whole of the Continent. And was it not horrible to contemplate the breaking out of cattle plague in Ireland? Ireland had suffered much from potato famine, and it might suffer again this year, although he hoped not to the extent of 1846, but if rinderpest was once to obtain a real footing there, he thought that every

friend of Ireland would shudder for the results. Although he did not deny that in some respects the restrictions upon importation might have created some increase upon the price of food, still he thought that the course of legislation in restricting the importation of foreign cattle and keeping from our shores rinderpest was justified by its results. He did not believe that those restrictions were the sole cause of the high prices in which farmers must rejoice, although other classes did not. He believed there were other causes, and one a very satisfactory one—viz., that many men could now afford to buy meat who could not do so a few years ago. He believed that the increased high rate of wages which so many were deploring was one of the reasons why the golden guineas were so rapidly falling into the pockets of the farmers. He would therefore ask those who might take a somewhat desponding view of this increase of the price of agricultural labour to recollect that if they had to pay more they were receiving more. And here he must congratulate them upon the absence of the heartburnings and bickerings which existed in the southern counties. They had now increased wages, and they must rejoice that they had attained that result without the strikes and heartburnings of their neighbours in the south. He hoped that the same satisfactory results might be obtained elsewhere. He thought they had obtained these results not merely owing to their superior wisdom and common sense, but also in a great measure from the fact that they had to meet a wholesome competition on the part of their neighbours in the adjacent towns. There was another cause of this good feeling. He referred to the existence of a strong and numerous class of small farmers. Political economists had prophesied with boldness that the small farmer must eventually disappear. He was not about to enter upon a discussion of the subject, but all he would say was that he saw no such inevitable necessity. He would deplore such a thing both on economical and social grounds. He believed that the labourers of their neighbourhood experienced a feeling that they might become in time small tenants themselves, and when once they had got their foot upon the ladder the world was before them. Socially and politically this was a most important class, and he hoped that it might long continue so. There was one other aspect of the question of increased wages. Increased wages was a very different thing from increased return for labour. Wages had increased, and at the same time the prices of all articles had increased and were increasing. It was only natural; the main or ruling cause of the increased prices of articles was the price of labour. If the agricultural labourer was to be better off it could only be by making his labour more productive. He believed that that could be done not so much by legislation as by improved skill and the application of capital. There might be some laws which interfered with the free transfer of land and kept estates in hands unable to do justice to them and tending to keep them in a state of bad cultivation; there might be others which did not encourage a tenant to the free outlay of expenditure upon his land by leaving in the hands of his landlord at the end of the tenancy all that he had expended. But these were questions which would occupy more and more attention, and required practical discussion. He was in favour of the extension of improved education to the agricultural districts and the application of the half-time system.

At Inverness, Mr. DONALD CAMERON, M.P., the chairman, said that whereas in the South, as every one knew, farmers were in a great state of uncertainty on account of labourers' strikes; in the North of Scotland they had reason to congratulate themselves that the system of hiring servants was such as that, whatever might be their demands at the markets, they could not be upset by them at the harvest time, and they did not run the same risk as their friends in the South country. In that respect he thought they were in a superior position to the farmers in the South country, and also in respect of their long leases. He, therefore, hoped that their friends in the South would project the same plan of long leases to protect themselves against their landlords and of half-yearly terms of service to protect themselves against their servants.

Mr. MUNDELL (Golanfield) said: I was awful pleased with our member, how he knocked out the Education Bill. Nobody could see but himself that it would starve the country. We certainly were awfully obliged to him; but at the same time they're driving the thing too hard upon us tenant-farmers.

That Committee, you know. Lord Elcho is puzzling truth, you know, and betraying, you know, honestly, you know. He (Mr. Mundell) was a Conservative, and hoped to goodness that his noble friend, Lochiel, and all his friends would take care, for he did not like to see the thing being pushed too much.

The CHAIRMAN said Mr. Mundell had referred to a Committee in London, by which he supposed he meant the Game-law Committee. He would suggest, if Mr. Mundell took great interest in that subject, that he should offer himself as a witness next year. He was quite sure Mr. Mundell would meet with every indulgence, and would be subjected to a cross-examination of twenty gentlemen, all holding different opinions, and their cross examination, he was sure, would gratify him exceedingly. But if Mr. Mundell would take his advice, he would keep away from that Committee, for he had seen gentlemen come before that Committee primed up to the eyes with facts, and go away from that Committee very much as gentlemen who had been unsuccessful would return from an Inverness cattle show. The question of game was a question in which some gentlemen took a very great interest. Some gentlemen were very much afraid of losing their game, and were almost wild about it, while other gentlemen were almost wild at the opposite extreme, and from between those two sides there were twenty gentlemen upon the Committee, who were competent to examine witnesses.

At Bicester, Mr. HENLEY, M.P., said: A great deal had been said of late—and he did not wonder at it—about the high price of meat. He did not believe that anything in the world would so much stimulate agriculturists to produce more meat than high prices. If that would not induce them to do it he did not know anything else in the world which could set their wits to work in that direction. Oxfordshire might take credit to itself in this respect. Seventy years ago sheep were brought to market under twelve months old, fat and full sized, and any one who had watched what had taken place since that time would know that it had become the general rule, and if that had not been so no one could tell what the price of mutton would have been. He could himself speak of the year 1812, because, being an undergraduate at Oxford, he used to see sheep come up in droves. It was not clear that the agriculturists of the county were not setting the example of doing a good deal in the way of beef. Everyone who knew what had been done by Mr. Campbell, of Buscott, could only marvel that so much beef had been raised on such a limited extent of ground, and it was very possible that the example might be followed by others. It was impossible to refrain from saying something on the question of labour. No one could be surprised that it had turned up in the way it had done. When the coal miners, the iron miners, the carpenters, the bakers, and other classes were all at the same amusement, it was not to be expected that unskilled labour would not be disturbed by the movement that was going on all over the country. It was impossible not to see the great change which had taken place. Between thirty and forty years ago a vast number of people were sent away at the public expense. Now the reverse was taking place, and any one who looked steadily and dispassionately at the question would see that matters would be best arranged between the masters and the men with no foreign interference. He believed that such interference would do no good—that it was very likely to exasperate instead of making peace, and that it would create discord. He had no doubt that forbearance on the part of the masters would be met, as it generally had been met by the working classes, in a fair and quiet spirit. It was the interest of both, if he might use such a phrase, that peace should be kept. It would be a very bad thing for the working man, and would lead to much inconvenience, alteration of habits, and difficulty amongst employers of labour if things were to get into an unpleasant state. He did not at present see any symptom of that being the case.

Colonel NORTH, M.P., said: Some fault had been found with Mr. Cardwell for allowing soldiers to gather in the crops. Now it appeared to him (Colonel North) that the first duty of any government was to take care that the food of the people should be as much within their reach as possible. They had nothing to do with respect to the disputes which might arise between neighbours, but they had a right to step in as Mr. Cardwell had done, and say, "We cannot allow the bounty of

Heaven to be destroyed because of differences between the employer and the labourer; it is our duty to get in the harvest, and then let them settle the question of labour between them. He had no doubt the labourers would soon find that they had been humbugged by men who did not care a straw for their interests, but whose only object was to benefit themselves.

Mr. CARTWRIGHT, M.P., considered the disturbance in the labour market throughout the length and breadth of the empire a most important question, and one deserving of investigation and close and straightforward inquiry. It was worthy of notice that there was a remarkable difference between former controversies and the manner in which the present dispute was carried on. Although sometimes vehement words had been used, there had been a general disposition both on the part of the masters and the men to come to an amicable agreement, thus showing a great change in the general habits of thought on the part of the people.

At Leominster, Sir J. R. BAILEY, M.P., said the great events which had recently taken place had been out of Parliament. They had had reference chiefly to the enormous rise in prices of many articles of consumption, which some persons said was due to the great rise in wages. He did not pretend to say what the cause was, but he believed that 20s. would only go about as far now as 10s. would a few years ago. He had heard a story of a school-inspector who, in examining a school, had asked the present price of a sixpenny loaf, and that upon one of the scholars replying "sevenpence-halfpenny," the scholar was sent to the bottom of the class. But really he thought that, in a certain sense, it might be said that the scholar knew more than the inspector. The increased prices to which he was referring were attributed to the enhanced value of labour; and it was clear that a man could not sell for 1s. that for the production of which he had to pay 2s. 6d. A great statesman had said that labour would get cheaper; but, however that might be, he hoped that labour would never get down to the starvation prices which he knew prevailed in this country some years ago. There had been a great tide of labour flowing out of England to countries where there had been great demand for it; but he trusted there would be such a demand for labour in England as would turn the honest hands of our labourers into our own corn-fields and other branches of industry. Some statesmen held the opinion that where there was a demand for labour there would be a supply. Now if ten men wanted a coat and only one could buy a coat there would be no necessity for making ten coats; but if all the men could buy coats, then the coats would probably be made. But we could not make men like we could make coats. We might assume that wages would go down, consequent on an increased supply, because people would marry and have families; but that would be a process which would take twenty years, and then there also came the question that by that time we might, with an increased supply of labour, also have a largely-increased demand for it. It was impossible to contemplate what might take place, and the practical question was best to manage things as they existed *now*. With regard to farmers, although there was perhaps no great difficulty in Herefordshire, he knew that in Breconshire there was great difficulty experienced in getting in the crops. The Speaker of the House of Commons, Mr. Brand, had had his harvest-home, and he said that the way to interest the workman in the welfare of the master was to give him a share in the farm. He said to his workmen "take your money out of the savings-bank, and invest it with me; I will give you the same rate of interest and your share of whatever profits may be made." That, it might be said, was a very grand scheme; but he (Sir J. Bailey) did not think it practicable. Mr. Brand had been born to a noble position, and by his abilities had attained to the highest position which a man could attain in this country, that of Speaker of the House of Commons. His labourers knew very well that with him their money would be as safe as if it were in the Bank of England; but that was a condition which could not apply to all. There were many cases of struggling farmers who could not be called upon to enter into such an arrangement; and he thought they should hesitate before making their labourers still more dependent upon them than they now were, for if he took the case of a man who was not a competent farmer, he would involve not only himself in ruin but also his labourers.

Sir HERBERT CROFT, M.P., said: Among other measures

which had been before Parliament was the Ballot Bill. There were, no doubt, in Parliament members who would have preferred that an appeal should have been made to the constituencies; but the bill had been passed and would be in operation for eight years. He was informed that the machinery of the bill was not very simple, and that the cost of elections under it was not likely to be less expensive than it had been before. If, at the end of eight years, the bill should prove to be a failure, it might then die a natural death. Then, Parliament had also passed a Sanitary Bill; but it was only a skeleton bill of what was to come next year. The Bill threw a great deal of extra duty on Boards of Guardians, and he hoped that those authorities would express their opinions, with no uncertain voice, upon the question before the passing of the bill to which the present one was only a prelude.

Mr. ARKWRIGHT, the chairman, said the great question of the day was that of the agricultural labourer. A great deal had been said about it; and while they all might agree in the agitation which had taken place, they knew that the remedy was not the work of a single day. Although some people had gone round the country calling attention to the question, there could be no doubt that the present crisis was one which the friends of the labourer had been looking forward to. Labourers' dwellings and their sanitary condition had been improved; as also their clubs, and other means by which they were assisted; and that work had led gradually to the present state of things, which he did not think, as he had said, could be settled at once, though he had no doubt it would be in due time; but it must be without any extraneous force being applied to the employers or the labourers. He knew that the farmers of Herefordshire were living near their incomes, and that they could only set aside a certain portion for labour. If, therefore, an employer was to devote more of his income than he had set aside for labour, what was to become of the weak and poor portion of the labouring class? Another thing, there was an immense amount of what might be called fancy labour which was calculated upon; but if wages were to be risen a great deal higher than they now were much of that fancy labour would be given up, so that those who had had work in the winter time would find themselves out of employment. He believed, however, that the whole agitation had done a great deal of good, for it had led employers to consider what a good man is and labourers to consider that all men are not equally good. He had no doubt that in the end they would settle it happily, but it would be amongst themselves. Another matter to which he wished to refer was that of agricultural returns, which he thought to be most important. As to the published statistics, he was pleased to find that there had been a great increase in the returns, but still they were not what they ought to be, considering how important it was that we should know what our produce is. Until lately we were the only country which did not return agricultural statistics; but now we did so, and he trusted that all would see the importance of making those returns, so that we might know the probable supply of cattle and corn required from abroad; also as to the condition of agriculture in this and other counties of England. There were still more than 100,000 acres in Herefordshire from which no returns had been made, and in the whole of England nine million acres from which no returns had been made, and of which, of course, nothing was known. Our duty was to grow corn and cattle for the people. The population was increasing at the rate of 180,000 a year, and therefore we had to consider the question how best to grow something for them to eat. One thing must be done, and that was to stamp out those agitators who said that the interests of the employer and employed, and of town and country, were different. It was not so, and it could not be. Living as those he was addressing did, in an agricultural district, it was their duty to do the best they could to find food for the people. There was another matter. He was sorry, the other day, to hear from Mr. Duckham, the editor of the *Hereford Herd Book*, that he was short of information as to Hereford cattle. This, he thought, was much to be regretted, because so much attention was paid to the pedigree of Short-horn cattle, and he did not see why there should be such deficiency as to Hereford cattle. It was necessary that full information should be given as to pedigree, as by that means stock was sold at higher prices and sent out to the Colonies—a matter, he need not say, of very great importance to that district, in which so many good cattle were bred. In return

for cattle the Colonies gave us preserved meat, and he might state that last year two million pounds were sent from Australia. He had alluded to the increase of population and the scarcity and high price of meat, and the question was how to meet the difficulty. Well, there were some who now ate meat three times a day, while their fathers only ate it twice, and their grandfathers perhaps only once. According to the returns, the quantity of cattle in the kingdom was 65,000 head less than it was in the previous year; while as to sheep the returns for 1871, as compared with 1867, showed a decrease of 3,500,000. The question, therefore, arose as to the necessity and economy of abstaining for a certain time from eating veal and lamb. He could assure the company that it had almost made him cry to go round the Lugg meadows and see nothing for stock to eat. Then, again, the increase in the price of coal, about 5s. per ton, made it almost impossible for some people to use it; and his opinion was that it would lead to the introduction of a better and more economical class of stoves. As to the sewage question, they knew that nothing was lost by Nature; and he believed that if they did not themselves take action a law would soon be passed by which nothing should be wasted from towns, and that great benefit would result. One other matter was that of the culture of fowls. Last year he bought twelve hens and two cocks of the Brahma Pootra breed, and he had cleared £9. The hens cost him 1½d. a-week to keep, and in the winter he had a thousand eggs. He did not see why a poor woman should not do something of the same kind. By putting the eggs into lime-water they could be kept, and she could have them for her husband in the winter. There was only one other subject, and that was the new Licensing Act. It was a very good act in some respects, but it must be made use of with common sense and not with prejudice. He believed that public-houses ought to be put in the most public places that they could be—that was, where they were wanted; and that there should not be a competition between two houses so as to make prices too low. The publican ought to be selected, and to be in such a position as to have no occasion to adulterate his beer. In the country they had that matter in their own hands, but it might not be so in towns. As to the Sunday question, his opinion was that the man who wanted his beer on that day ought not to have it drawn on the Saturday night. He should not like to drink such beer himself. The great thing was to get good beer. For his own part, he believed there was much beer adulterated with salt, tobacco, and other things of which the consumers knew nothing, and that a great part of the drunkenness arose from that adulteration by people being led to drink more than they would otherwise do. His opinion was that intoxication would never be got rid of until adulteration was done away with by legislative enactment.

Mr. GEORGE YELD said, as to lamb and veal, he did not agree with Mr. Arkwright, because he believed there was nothing which would produce the same amount of meat in the same time as a well-bred and well-fed lamb. He had sold lambs, 12 lbs. per quarter, at ten weeks old, for 45s.; and when that could be done, he thought that was one way of growing food for the million.

The CHAIRMAN: But if you don't kill your ewe lambs, you would have double the stock the next year.

Mr. S. GOODE said, in his opinion, the foreign cattle which were imported ought not to be "murdered" in the condition in which they were now slaughtered, but to be fattened here. For that purpose he suggested the establishment of large quarantine farms around the ports of debarkation, where the cattle might be fattened. If that were done, he did not hesitate to say there would be no difficulty in supplying meat to the people of England. He did not agree with the idea of not slaughtering calves and lambs, for nothing weighed so well as when it was young: it would never make the weight, according to the quantity of food consumed, afterwards.

Mr. DAGGS reminded Mr. Yeld that it was only persons who, like he, were situated on the rich pastures of the Lugg, who could produce lambs of the class which he had described. The Chairman took a national view of the question, but his friend Mr. Yeld, so fortunately situated, was perhaps more inclined to view the matter from his own stand-point.

At Halifax, Sir HENRY EDWARDS, the Chairman, said the harvest of that year, taken altogether, was not equal to that of some former years; but he believed that in that dis-

trict they had no reason to complain. The cereal crops were very good, and those of hay were abundant, and as a rule had been won in good condition; so that on the whole he could congratulate the neighbouring farmers on being fairly successful. He had had conversation with the gentlemen who had that day acted as judges; and it was their opinion that the exhibition of that day was the very best the association had ever held. The horses, of all classes, were very fine, and the cattle also a very good show, whilst that of pigs was wonderful. It had been a matter of remark that the number of sheep exhibited was very small, and to that his reply was that the lambs and calves were slaughtered, and that as a consequence the after-grass this year was knee-deep in the meadows. He thought it would be wise if the legislature was to pass an act prohibiting the slaughter of lambs and calves (cheers, and "no, no"), for if they had such a measure as that, the abundant after-grass would be eaten off, instead of being wasted as was the case at present. During the present season he had mown about 120 acres; and what became of the after-grass? Why, on the previous day, at the floral show, the people were treading down grass 12 or 16 inches high. This did him no harm; the grass might as well rot in the ground, as he could not obtain cattle or sheep to eat it. His was not an isolated case; but the rule throughout nearly the whole of Yorkshire. People dared not go into the market to buy, because they were afraid of bringing home cattle suffering from foot-and-mouth disease—that curse to our country. There was also the fear of re-introducing the cattle plague. At a great fair recently held in Berkshire, the number of sheep on offer was 15,000 less than in former years, which clearly proved that the number of sheep in the country was smaller than formerly. Another matter that had often struck him was the difficulty of supplying the army with horses. Instead of giving £25 for a good cavalry horse, as was formerly the case, they had now to give £40. He believed if English farmers were to cultivate the breed of horses, they would get a fair price for them, and a good remuneration for their trouble, as there were no better pastures in the country than they had in that hilly country. He therefore recommended young farmers to turn their attention to the breeding of horses, suitable for the army. He considered that the export of horses was to be deplored. He knew men in the East Riding who exported as many as 2,000 a year; and how were these to be replaced unless English farmers would cultivate the breed of them? Ireland used to be famous for good horses; but during the potato famine most of the best mares were sold, and the consequence was that the supply from that country was now much diminished. He was glad, however, that there was a feeling growing amongst Englishmen to preserve the best breeds of horses; and to see that at the recent Middle Park sales an English Company bought three of the best stallions in the country, at a very large expenditure. He believed that were attention now paid to the matter, there would be a wonderful change in the supply during the next few years. A feeling was gradually gaining ground in favour of the utilisation of sewage. In some places, he observed, sewage sold at a great profit; and the sewage of Halifax, with a population of 60,000, were sold, as he hoped, ere long, to a profit, the benefit to the town would be very large. He believed that during the next ten years there would be such a revolution in the country with regard to sewage as would be perfectly astonishing.

At Holme Cultram, Mr. HODGSON, M.P., the chairman, said one measure had been passed, of which many in that room might be ignorant, but for which they would some day have to pay the price. He referred to what was called the Health of Towns Act, extended during the last session to country districts. Now, he knew this county pretty well; he had had the pleasure of visiting a great many of the farmhouses in the county, and seeing the state in which the farmers kept their farmyards, he could not find fault with them. He had always been told by the Cumberland farmer that the larger the midden he had at his door, the better he liked it. But he was afraid the Act which had just been passed, if its administration gets into some hands, would compel many farmers to remove that useful article some distance from their houses, and he was afraid also that this and other operations under the Act would entail considerable expense upon them. There was great rejoicing when the Chancellor of the Exchequer could save the salary of a clerk, or could pull down some office which had

hitherto enjoyed a pittance on which a man could scarcely exist; but here was a measure which would add, he believed, some five or six millions to the burdens of the ratepayers, many of whom were quite ignorant of its existence at this moment. Now, cleanliness was a very good thing; he approved of it in every department of life; but they might buy gold too dear; they might ride a willing horse too hard. Although the Cumberland farmers had a good dung-hill near their door, he did not think they were a short-lived race. He did not think they lived shorter lives than the men of the south or than men in any other part of the world. Indeed, he ventured to say that if they went into the churchyards of this county they would find the record of men whose length of days had been greater than they would find in almost any other county in England. He remembered being very much struck with that while visiting the churchyard of Lanercost. There, from the tombstones, you might suppose that the man who departed this life at the age of 70 had died in his youth, and those who were cut off at the age of 80 appeared to have been taken away in the prime of life, there being so many tombstones which recorded deaths at a greater age than that. He therefore did not apprehend, if they allowed the Cumberland farmers to live in the way their forefathers had done, that there was much danger of their lives being injured by the state in which they kept their farmyards. He was of opinion that legislation was going too far, and, as in this case, was interfering unnecessarily with the manner in which a man managed his own business. Let the farmer manage his own farmyard as he likes; if he finds it unhealthy, for the sake of himself and his family he will remove the cause of the unhealthiness. It was unnecessary legislation; and when they came to pay for it, they would be of his opinion that it was not likely to conduce to the public welfare. At the present moment farmers had difficulties to contend with, but they were such as he hoped might be overcome, and that early. He wished it had been in his power to facilitate them on the prospects of an abundant crop of corn and other cereals. But he had had an opportunity of lately going over a great part of the best cultivated land in England, and from what he saw he concluded that the wheat crop throughout those districts would this year be deficient in quality. The oat crop is most luxuriant everywhere; it looked thick and strong on the ground, and so far as he had seen it, it would take off heavily and well. The barley crop was about an average one. He was sorry to say that the potato crop was suffering from what was known as "the potato disease." He had himself seen many fields blighted, and the crop generally was very seriously injured. But though this was the case this year, it was only a year by itself. The last two or three years had been years of abundance in the potato crop; and even now we might hope that other means may be found for sustaining the population of this country, and especially of the sister island, Ireland. But with respect to England, he apprehended that the prospects of the agricultural interest were never brighter than at the present moment. He was not present at the Royal Agricultural Society's show, but he was told by a friend who was there, and whose judgment on such matters was sound, that the agricultural machinery shown was much beyond anything ever shown before; and though it had been said that agriculture owes less (commercially speaking) to machinery than any other branch of business, still, when we considered the perfection to which the reaping machine, the thrashing machine, the steam plough, and other appliances had been brought, it was sufficient to convince us that agriculture never had better prospects than it has at the present moment. Of course there was the labour difficulty, to which reference had been made. Every man who had his labour to sell had a perfect right to use every means in his power to get the best price he could for his labour, which was his capital. On the other hand, the man who wanted to employ that labour had a right to get it as cheap as possible, provided no illegal means were used either to raise or to beat down the price of the labour. He was sorry to say that serious differences had arisen in some parts of England on this subject; but in this county the wages paid by the farmers to the labourers were such as to ensure the latter a comfortable existence such as they could not get in many parts, and therefore he hoped we should be preserved from the unhappy differences which perplexed agriculturists in other counties. Coming to the toast, he said he was quite sure that societies such as this were of great use in stimulating and pro-

moting the success of agriculture. Thirty or forty years ago people could have no idea that the class of cattle shown to-day could ever be produced; and this remark applied not only to Shorthorns, but to pigs, sheep, and horses also, and he attributed very much of the improvement which had taken place to the example and influence of shows such as this. When he goes into a show-ground, the farmer looks with pleasure upon what his neighbour brings to compete with his for the prize, and he says, "Well, I'm sorry you've beat me, but I'll try next year if I can't beat you;" and by that healthy stimulus much of our advancement in agriculture had been made.

At Braiseworth Harvest Home, Sir EDWARD KERRISON asked: Why should any landlord stand in any other position to the labouring population than he does to the farmer? Why should he endeavour to favour one class more than the other? Were not the labourers, as well as the farmers, tenants upon the estate? And why, again, should people travel the country and give advice to the labourer? If the labourers would come to him he would give them the best advice in his power, because he believed that was the proper feeling to encourage. There were no doubt always trying times when there was a change, but there must be changes. The world would not progress without changes. It was some years since the question in the labour market arose; prices had gone up, and it would not be fair towards the labouring classes that they should pay increased prices and not seek to get a little benefit out of the change. If they were reasonable in their terms they were sure to be met, but if they exceeded reason the markets would show them that it was impossible to go on on unreasonable terms. We were all apt to sleep sometimes, and to be unaware that the world was progressing. He was reminded of a story of a domestic who was in the habit of calling every morning at the house of a medical man and leaving the state of her mistress's health and her compliments. One day the old lady died, and the servant, making her usual call, said she was sorry to say her mistress's compliments, but she died last night! She had got so into the habit of presenting her compliments that the woman could not really forget it for the moment. In the same way landlords were apt to think that people were always to have 9s. or 10s., or 11s. or 12s. per week; but this they found in time by the markets was not so. Rumours of strikes and high prices being posted about from mouth to mouth, got more importance than they deserved. If an accident happened in the parish of Braiseworth, the first man would get at the truth; the second would think the man was very bad; and a third would think he was going to die. So different exaggerated reports would be spread, and the only way to arrive at the truth would be to go to the doctor and ask him. So when he (Sir Edward) heard that things in the country were coming to a crisis, and that the harvest money was to be raised to £11, and that everybody was going to quarrel with everybody else he did not believe it. People who did, tried to influence the labouring population, and prompted them to do what was not reasonable. When people were near large manufacturing districts, it was all very well to go down coal mines and into factories, and earn great wages. In these places, wages rose far more than they did in the agricultural portions like this county, but although it was necessary and essential that coal should go on being raised and that cotton mills should go on being worked, yet it was not necessary that farmers should pay their agricultural labourers what was paid to miners and cotton weavers. If they thought that they were suddenly to rise in their fortunes they might depend upon it that the day would come when they would recollect what he had said. All things were gradual in this country. No prices could remain high in this country for any length of time where competition was so great. If a bad and discontented feeling grew up between employer and employed, the labourer would be taken simply for his greatest value in the labour market, the old would cease to be employed, the strongest would get the best wages, and the others would have to eke out the best of their time. The principle he should advise was one of giving and taking. If the landlords agreed that in consequence of the state of the times it was reasonable that the labourers should have something extra, the labourers should show their satisfaction by giving their labour freely to the tenant-farmers, and they would long continue united.

THE CATTLE-PLAGUE.

(From the *London Gazette* of Tuesday :)

Whereas it appears to us, the Lords Justices of Ireland, and to Her Majesty's Privy Council in Ireland, to be expedient to make this Order, for the purpose of preventing the introduction among animals in Ireland of a contagious or infectious disease commonly called "the Cattle-plague" or "Rinderpest."

Now we, the Lords Justices of Ireland, by and with the advice of Her Majesty's Privy Council in Ireland, hereby, by virtue and in exercise of the powers vested in us under the "Cattle Disease (Ireland) Act, 1866," and the "Cattle Disease (Ireland) Amendment Act, 1870," and of every other power enabling us in this behalf, do order as follows :

1. This Order shall take effect from the publication of same in the *Dublin Gazette*, and shall continue in force until the 14th November next, inclusive.

2. Cattle in this Order shall mean any cow, heifer, bull, bullock, ox, or calf.

3. No cattle, goat, kid, or swine from any place in Germany, or from any place in that part of the United Kingdom, called Great Britain, shall be landed in Ireland.

4. No sheep, ram, or lamb from any place in Germany, or from any place in that part of the United Kingdom, called England, shall be landed in Ireland.

5. No sheep, ram, or lamb from any place in that part of the United Kingdom called Scotland shall be landed in Ireland, save under the conditions hereinafter mentioned and set forth (and any breach of any such condition shall be deemed an offence against this Order), that is to say—The exporter of such sheep, ram, and lamb, respectively, shall, within three days of the intended time of shipment, duly make a solemn declaration in the form annexed to this Order, which declaration shall thereupon be delivered to the shipowner's agent, or captain of the ship, until which delivery the sheep, rams, or lambs shall not be allowed on board the ship or vessel; and such declaration, along with the sheep, rams, or lambs, shall be committed to the captain's custody, and so remain until the ship's arrival at the port of debarkation in Ireland, where such declarations shall be handed over to the Collector of Customs or one of his officers; and the sheep, rams, or lambs shall remain on board until permission has been granted by such Collector, or one of his officers, for their debarkation.

6. No undressed or raw skin, hide, horn, hoof, or any part of any raw or undressed skin, hide, horn, or hoof, or any offal of any cattle, sheep, ram, lamb, goat, kid, or swine from Germany shall be landed in Ireland.

7. No undressed or raw skin, hide, horn, hoof, or any part of any raw or undressed skin, hide, horn, or hoof, or any offal of any cattle, sheep, ram, lamb, goat, kid, or swine from any place in Great Britain (unless the same shall have been brought into Great Britain from India, South America, or Australia) shall be landed in Ireland.

8. Every person offending against this Order shall for each offence incur a penalty not exceeding £20, and when any such offence is committed with respect to more than four animals, a penalty not exceeding £5 for each animal may be imposed instead of a penalty of £20, provided that a penalty less than the *maximum* may be ordered to be paid.

Given at the Council Chamber in Dublin this 13th day of September, 1872.

ATHLUMEY.
J. H. MONAHAN.
FRED. SHAW.
R. DEAST.

DECLARATION.

County of _____ to wit.

I (name, residence, county and occupation of exporter to be here set forth) do solemnly and sincerely declare that the sheep, rams, and lambs described in the schedule hereunto annexed, and intended to be exported by me to (name and place of residence of consignee), are Scotch sheep, and have never been out of Scotland.

And I make this solemn declaration, conscientiously believing the same to be true, and by virtue of the provisions of an Act made and passed in the 5th and 6th years of the reign of His late Majesty (5 and 6 William IV., cap. 62) intitled "An Act to repeal an Act of the present Session of Parliament, intitled 'An Act for the more effectual Abolition of Oaths and Affirmations taken and made in the various depart-

ments of the State, and to substitute declarations in lieu thereof, and for the more entire suppression of voluntary and extrajudicial Oaths and Affidavits, and to make other provisions for the abolition of unnecessary oaths."

Made and subscribed before me, a Justice of the Peace for said county, at _____ this _____ day of _____ 187 .

(From Friday's *Gazette*.)

At the Council Chamber, Whitehall, the 17th day of September, 1872, by the Lords of her Majesty's Most Honourable Privy Council. Present: Mr. Hammond, Mr. Forster. The Lords and others of her Majesty's Most Honourable Privy Council, by virtue and in exercise of the powers in them vested under the Contagious Diseases (Animals) Act, 1869, and of every other power enabling them in this behalf, do order, and it is hereby ordered, as follows: Notwithstanding anything contained in Article V. of the Cattle Plague Order of 1872, which prohibits the holding of all markets, fairs, exhibitions, and sales of cattle within the city of York, and within the East Riding of Yorkshire, and all the boroughs therein, except under licence of the Privy Council, the following sales of cattle may be held without such licence: *a.* Cattle belonging to the owner or occupier of premises not in an infected place may be sold on those premises if the cattle are not affected with cattle plague, and have been on those premises in possession of the owner or occupier thereof, not less than 28 days immediately before the sale. *b.* Cattle within a defined part of a port, which have been delivered to the owner or his agent, may be sold within such defined part. Markets, exhibitions, and sales may be held under licence of the Privy Council.—ARTHUR HELPS.

A decree of the French Minister of Commerce, dated the 14th inst., prohibits the importation and transport of horned cattle from the Steppes, and also the fresh hides and offal of such beasts. The prohibition also extends to all cattle coming from Russia, North Germany, Austria, Hungary, and the Danubian Principalities. The importation of cattle from other countries is only permitted after they have undergone a rigorous inspection by the special Custom-house authorities. Beasts arriving from Spain and Algiers are the only ones exempt from these measures, and are admitted into the country as heretofore without previous examination.

The local authority of Malton have put in force the resolutions of the Executive Committee at Northallerton on Monday, prohibiting the removal of cattle from the East to the North Riding, and *vice-versa*; closing fairs, markets, and sales, except by licence; and appointing a veterinary inspector. Notices have been also issued prohibiting the depasturing of cattle upon or by the sides of the highways and lanes. The Local Board of Health has decided to extend the scope of the licences granted to private slaughterhouses in Norton, so that any of the borough butchers might slaughter their East Riding cattle therein.

A telegram from Brussels states that a decree of the Minister of the Interior prohibits the importation and transit of sheep and cattle from England. This prohibition also applies to the fresh killed carcasses and offal of the animals.

The Cattle-plague Committee of the Hull Corporation has decided to close the cattle-market at Hull for 21 days.

At a meeting of the sub-committee of the Local Authority for the Division of Allertonshire, Mr. Moulding Walmsley, Deputy Chief Constable for the North Riding, was appointed to grant licences for the removal of cattle from the Petty Sessional Division to places out of the North Riding for markets, &c., and also for the removal of cattle, sheep, goats, and swine from premises or land upon which any infected animal is found, or where they have been in contact with such animal. All the markets and fairs in the North Riding are prohibited.

The local authority of the county of Westmoreland has, until further notice, prohibited the removal of bulls, cows, oxen, heifers, and calves from Yorkshire into the county of Westmoreland, except by licence signed by a justice of the peace.

The Northamptonshire Mutual Cattle Assurance Association has determined to petition the magistrates of the county to close all markets and fairs except for fat stock intended for immediate slaughter.

On Wednesday, the steamer *Schwalbe*, of Bremen, arrived at Hull, having on board 112 head of cattle, and 160 sheep, the whole of which were landed, and every animal passed by the inspector as healthy.

THE LAVENDER COUNTRY.

In a ride by rail from West Croydon to Sutton, and on both sides, commencing at Waddon, as far as the eye can reach are long narrow strips and occasionally broad expanses of lavender. After a thunderstorm, refreshed by the rain, the colour is deepened and intensified, and the perfume crosses the pathway of the train. When the sun is shining with unusual brightness, anyone standing in the midst of those fields may see the sky reflecting back the colours from the earth, the blue tints exchanged to lavender. Alighting at Sutton—the limit for the present of this cultivation—the road turns sharply to the right, and passes the well-known sign of the Cock, an hostelry of sporting notoriety, and brings us back on foot in the direction of Carshalton. Had we chosen the left-hand side of the railway we should have been upon a plain stretching far away from Banstead Downs to Epsom Downs. There seemed something so unusual, peculiar, and attractive in the appearance of the landscape. To ride through miles of vineyards in the Côte d'Or, the "golden hill-sides" of France, or watch the terraced heights on the Rhine banks, where the sun casts back its rays from the broad waters like a mirror, and great and influential people discuss the merits of this or that year's vintage of Burgundy or hock in all parts of the world—compared with such scenes and thoughts lavender seemed to possess far humbler pretensions. But then we were told that it had unfailing medicinal qualities most valuable to workers in the fields, moreover it formed a component part or entered more or less into the composition of every description of scent; and the toilette and boudoir are no trifling questions in our days of supposed luxury and refinement unprecedented. We well remembered those little muslin bags—possibly there might be one or two stowed away forgotten in drawers at home. Hereafter they would be better appreciated for their modest appearance by the side of the gorgeously-decked perfumes of a Rimmel. The road lays high, and commands an extended view, and the patches of lavender seemed to thicken and multiply, some near at hand, others in the hollow, to our unaccustomed eye having a strange effect, when placed in contrast with light greens of standing waving corn, the graver greens of the fences, and the still darker greens of the trees, with the fairy-like structure of crystal glistening in sunlight on the horizon. The crop, we were told, was looking remarkably well, with every chance in favour of an average. The subject appeared to possess considerable interest to wayfarers like ourselves. It was not difficult to get information from the humbler sort of folks, and we followed the route prescribed through Carshalton, frequented by trout fishers and brothers of the angle, and described by a great art critic as the most picturesque of all the villages in England. A stream that emerged into the road-side seemed to race with our footsteps, then disappeared, when turning sharply about on the right we were at Wallington, in the centre of our search.

The district of Beddington, associated with the palatial residence of the Archbishop of Canterbury, of which Wallington is a hamlet, contains about 200 acres devoted to the growth of lavender. According to our informant, throughout the whole locality, including Sutton on the extreme verge, Carshalton and Mitcham, there may be counted about 300 acres of lavender fields. Mitcham is the parent source of the herbal or "physic gardening,"

in the native *parlance*, and from that place, about twelve or fifteen years ago, some transplants were made to Beddington. From thence the growth has extended to the neighbouring parishes, until, as at present, the eye is attracted on all sides by the broad sheets of colour, and the air scented with the perfumes. In no other part of England has the same success attended this kind of gardening, except in Cambridgeshire, where the production is said to be inferior, although this opinion might even be reversed by inquiries in that quarter. However, it is evident, as in the case of the hop gardens in Kent and Sussex, something peculiar existing in the soil or climate, or both, makes these plants to thrive. Those who have crossed the plains of Spanish Estremadura could have seen miles of waste land covered with the *lavendula* species, and florists conclude that the same skill brought to the assistance of nature might equally result in the successful crop that finds its way first to the distillery, and then by many transmutations to the scent-bottle or the medicine-chest. The only peculiarity observable is a loamy upper surface for several feet upon a substratum of chalk, rather of a "holding nature," although dry. The ploughing at present is not so deep as in former years, and to this circumstance has been assigned the reason why in place of bearing for eight or nine years as formerly, the plants are now exhausted in three or at the utmost in four years. Upon an open space at Wallington of thirty acres, the largest lavender-field in the locality, we were able to observe the different growths of the one, two, or three years. Nearly adjoining was another four-acre enclosure spread out as level as a billiard-board, which we can readily believe to be the finest example of the one year's crop that could be seen anywhere. Only a moderate application of manure is necessary at the outset in the autumn, when the planting takes place; and after the first year's harvesting, the plants have grown to such dimensions that every other row has to be taken out, and every other plant in the row that remains. The three years' growths are the first to come to maturity, and then the second, and then the third. The harvest takes place in August. The cutting, which is done by the sickle, appears an art of itself, which affects the crop in the future year. The labourers are followed by women and girls, who immediately pack and tie the lavender up in mats to protect it from the rays of the sun, or otherwise the quantity of oil to be extracted would be reduced before it could be taken in hand at the distillery. Small quantities have been previously cut before they are fully ripe, for Covent Garden Market, or for sale about the towns and villages in the neighbourhood.

The distillery process is carried on upon the spot, as the volumes of smoke from several chimneys and the strong odour of herbs around the buildings sufficiently testify to some very odoriferous process within; for it must be remembered that peppermint, rosemary, dill, camomile, as well as lavender, have to find their way to the same crucial test. Beneath a brick-built shed stand a row of stills, with what are called worm-tubs attached to each still. Upon the ground-floor the furnaces are being attended, and the percolator watched, as a trickling noise indicates that the oil is being extracted by the process going on. Above the furnaces are the stills, of dimensions sufficient either to contain half a ton or a ton weight of herb, and the building is spacious enough to

admit of carts being driven in for the purpose of unloading. The still is filled thrice in four-and-twenty hours, namely, eight hours to a run. The men get upon the upper floor, remove the still-head by a lever, then take the lavender from the mats and tread the stalks down with their feet until the copper is tightly filled to the brim. Liquor at boiling heat is then taken from the top surface of the worm-tub, although at the bottom and lower surface the water is quite cold, and the furnaces are set to work. The *worm* consists of piping attached to the head of the still, and passes round and round the tub which contains the cold water. The men watch the bringing over of the still—that is, the moment when the liquor begins to flow over the head into the worm. Directly it does so, they know that the oil is running, and immediately damp down the furnaces. The boiling liquor from the herbs by passing through the tubing immersed in cold water becomes condensed, and the oil separates from the water and runs into the percolator at the foot of the worm-tub. This bringing over is the most critical point in the whole operation; then great attention and experience are needed, otherwise the herbs both stalk and flower might be taken into the worm, and the oil be spoiled. So well practised, however, are the men employed that what is called a “run foul” is scarcely known during the whole of the distilling season. From thence it is taken and placed in dark glass bottles with short necks, containing 4lbs. to 7lbs. each, ready for merchandising. When one lot has been distilled the still

top is removed by the lever, and the charge taken out with long forks. The steam and vapour that arise are very great, for the uninitiated quite overpowering; and what is termed the “walk” being very heavy, the men themselves have to labour hard to get out the refuse, which is thrown just at the back of the building for manure. The coppers are filled up again with herbs, fresh water is pumped into the worm-tub to supply what has been taken off the surface for the still, and to replace what has passed off in the evaporation that has been always going on, and the process again proceeds.

The quantity of oil extracted from a ton of lavender varies according to the influence of the seasons, from 15lbs. to 16lbs. is considered a fair average, very seldom it reaches 21lbs., sometimes not more than 10lbs. The distilling lasts about two months, from about the first week in August to the second week in October, according to the abundance or otherwise of the surrounding crop. The business itself is separate from the growing; the small growers as well as the large take their crops to the distillery, and pay a certain agreed-upon rate per ton. The results during the present season have been favourable, although the continuance of wet weather somewhat interfered with the outdoor work. These operations may be seen and inquired into by following out the route we had taken from Sutton, through Carshalton to Wallington, thence by the footpaths across the lavender fields to Beddington, and on to Waddon station upon the railway of the London and Brighton Company.

THE LAND LAWS AND TENANT RIGHT.

At the recent half-yearly meeting of the Scottish Chamber of Agriculture in Perth.

MR. SMITH (West Drums), the chairman, said that one or two alterations had been made on resolutions which had been agreed upon by the directors to be recommended for the adoption at this meeting of the Chamber. These resolutions, as altered, read as follows: “The directors having resumed consideration of the remit to them by the general meeting in November last on the land tenancy laws, and having also under their consideration certain overtures from counties’ committees on the subject, resolve to report to the approaching general meeting at Perth as follows: I. That the land tenancy laws, particularly those by which all improvements made by the occupier of land become the property of the owner, are detrimental to good husbandry, injurious to the interest of both landlords and tenants and the welfare of the general public, and that their immediate revision is urgently wanted, in order to meet the requirements of a modern agriculture. II. That in order to promote successful farming and ensure the fertility of the soil being kept up to the close of the lease, the tenant, in security of the capital invested by him, ought to have a right by law to payment on his removal from the farm for all works executed and unexhausted manures applied by him, which add to its letting value, as the same shall be ascertained by arbitration. III. That a humble petition be presented to Her Majesty, craving that she will be pleased to appoint a commission to inquire into the working and effects of the whole system of the land tenancy laws, with a view to their revision and amendment.” In submitting the resolutions, he said—I put these resolutions to the meeting for discussion, and, I trust, approval. That there is a great land question before us in the immediate future there can be no doubt, and it is not out of place that I should counsel in its treatment the utmost fairness and candour. The question was so ably opened up in the address of Mr. McNeel Caird in the meeting I have referred to, that I am saved the necessity of speaking to you at length in defence of the course the Chamber is recommended to take. The resolutions now submitted are of a general rather than of a special character, but they are intended to

cover an inquiry into the whole system or code of land tenancy law. We had some years ago, as you are aware, a very meagre, and I will say fruitless measure, on a certain branch of these laws, to wit, that of hypothec. We still hold that the evidence which was then given on the subject before a Royal Commission, and afterwards before a Select Committee of the House of Lords, ought to have for ever sealed its fate, and sent such an exceptional law into oblivion. A law which is calculated to warrant a transaction, however bad it may be and however foolishly gone into, cannot surely be long in the statute book of a free country. The Game-laws I feel called upon to refer to on this occasion; they are at present *sub judice*, and we may fairly wait the result of the inquiry in the hope that a just measure of relief will come out of it. I cannot, however, pass this subject without expressing my regret that the evidence, reliable as it certainly is, on the whole should have been encumbered with such an amount of altogether irrelevant matter—matter certainly not calculated to aid the Committee in their report, and in my humble opinion, some of it certain to do mischief to the cause it was intended to forward. I shall now shortly refer to the principle of compensation to tenants holding under lease for unexhausted improvements made at their cost, calculated to add to the letting value of the subject they are about to quit. This, to most who have given the matter consideration, appears to be a perfectly just claim, and one which ought to be recognised by law. It comes very far short of what has been granted elsewhere, but the purposes of our advanced agriculture, we think, may be served by its recognition, even to the extent now put forward. When we think of the enormous expenditure in manures and feeding stuffs, going in many of our Scotch counties beyond the one-half of the gross rental, it is not to be wondered at that this new element should have arisen, and that an application and outlay so continuous should have come to require looking after. The tenant saves himself at present, or rather attempts to do so, by a miserable system of exhaustion towards the end of his lease—a system not only opposed to his own interest, but injurious also to the interests of the landlord, and, under a necessarily diminished produce of the land, is

opposed to the public good. The hardships which accrue when, it may be, unavoidable misfortune overtakes the tenant, I need not recount, and in the event of non-renewal of the lease, it amounts under our present system simply to confiscation. The fairness of the claim cannot, I think, be disputed. At any rate, let the law and its presumption, be on the side of justice, instead of being, as it is at present, on the side of injustice. I should take a very narrow view of the subject if I failed to admit that if the tenant is to have a constituted right for unexhausted improvements, the landlord must be also held to have a just claim for deterioration. I think, however, considering the nature of the evidence tendered by an eminent Edinburgh lawyer much connected with this county the other day in London before the Game-laws Committee on a somewhat similar question, this part may be fairly enough left in the landlords' interest to Her Majesty's Writers to the Signet. I admit freely that we have more bad tenants than bad landlords, and if the improvements of the former are to be saved from appropriation, deterioration of the subject let has not less to be guarded against. We are not likely to have legislation on this or on any other subject without inquiry, nor is it desirable we should have. We believe it to be called for, and with that view we recommend that Her Majesty be petitioned to grant it. We put forward these views, I trust, in the spirit in which they ought to be put forward. They may at once be met by those who have it in their power to rectify abuse when it prevails, and to conciliate by acts of justice the disaffected. They are stated in moderation, and are, I hope, all the more, likely to be supported by firmness.

Mr. GOODLETT (Bolshan) moved the adoption of the report in an able speech.

Mr. BETHUNE (Blebo), seconded the adoption of the resolutions. He thought they were not without reasonable hopes that a large number of men's attention was drawn to the subject of the resolutions. It seemed to him a very correct statement that was made by Lord Lansdowne some time ago to the effect that the three kingdoms should be dealt with independently in the matter of land laws. In carrying out the purpose of these resolutions they would require to use every lawful means to bring the subject before the attention of the public. He saw that the editor of the *North British Agriculturist* in Wednesday's paper had expressed a fear that the directors were wrong in recommending to the meeting that a request be made for a Royal Commission to inquire into the present condition of the land laws, with a view to their improvement. He (Mr. Bethune) did not agree with this remark, as he did not think a bill could be brought in by any member of Parliament that would pass, and he did not think the subject could be fairly brought before the minds of the country without a Royal Commission. They must use every endeavour consistent with reason—aye, even, and of unreason—to get the Law of Hypothec abolished, because he was not very sanguine that the subject of proper compensation would be looked at in half such a favourable way till the law of hypothec had been abolished. After the very able and exhaustive speeches of the chairman and Mr. Goodlett, he would not occupy their time further than to urge the Chamber to agree to the resolutions, and to try to get a Royal Commission rather than try to get a bill. The subject would require to be ventilated a great deal more than it had been before a bill on the subject could be introduced.

Mr. DUN (Baldinies) wished to make a few remarks in support of the third resolution. After what they had heard of the evils of the land tenancy laws, as these at present existed, he could hardly suppose that doubt existed in the mind of any that those laws required revision and amendment, and as a Royal Commission to inquire into the working of the whole system of these laws seemed to be the constitutional form of opening up the question, he would say that the sooner such a commission was appointed the better. It was idle to talk of leaving freedom of contract to solve the difficulty. The laws were there, and it was only by passing a better set of laws that they were to be relieved. He spoke on this subject the other day to a member of the Chamber, who told him he did not think the land tenancy laws required any change at all, as a man had the terms of his lease to decide the matter. If this gen-

tleman and others had heard the discussion that had taken place that day, they might have been convinced that to leave the parties to a lease to settle the question of compensation for unexhausted improvements was simply to ignore the existence of any grievance whatever, and to show that the law must interfere between man and man, and hold the balance at least even between them. The land laws supported the landowner to the injury of the tenant, and the cases of injustice and grievance which had already been referred to led one to ask the question, Why should the tenant's capital be placed in a position so different from that of the landlord's? Although the promoters of a change in the land laws sometimes got credit for attempting to "confiscate" the property of the proprietors, the plain truth was that they only wanted to have the law so placed as that the landlord should not have so much power to confiscate the property of the tenant. He had drawn up the following propositions in regard to an enactment on this subject, which might be approved in principle: 1st. In the event of a tenant's death during currency of a lease, compensation should be allowed for all drains, lime, and unexhausted improvements. 2nd. In event of bankruptcy, all creditors whose capital has helped to improve the farm should have an equal dividend with the landlord. 3rd. In the event of bad health or accident overtaking a tenant during the currency of a lease, he ought to have unrestricted freedom of transfer. 4th. At the natural expiry of lease a man should be entitled to fair compensation.

Mr. TAYLOR (Cushnie) said that his friend, Mr. Largie, had taken a farm ten years ago by competition, the rent of which had previously been £330, while the new rent was £750, though an allowance of a few hundred pounds was given for repairs. Mr. Largie had since spent £1,300 upon buildings, and at the end of the lease every farthing of the expenditure on the farm would go to the landlord. He also referred to the case of his friend, Mr. Alexander, who had drained the farm, repaired the steading, and otherwise improved the farm at considerable cost, and when a new lease had to be made some time ago, all the benefit of these operations went to the landlord, who raised the rent. All these were cases illustrative of the hardships of tenant-farmers, and many more such cases could be given, which would testify to all the necessity for reform of the land laws.

Mr. BETHUNE said that there were now only seven Tories returned by Scotland, and he would like to see some of their Liberal members educated on this question, so that they might assist the Chamber in their efforts.

Mr. GARDINER (Chapelbank) said he could give many instances where good farms had been very much damaged by bad tenants. Seeing how slowly the present Game-Law Commission was getting on, he thought it might perhaps have been the better plan to get a few members of Parliament to frame and introduce a bill into Parliament on this subject of land tenancy laws.

Mr. RUSSELL (Kenly Green) moved, and Mr. STORRAR seconded, an amendment to the effect that the words "unexhausted manures" be left out of the resolution.

On a vote being taken all present voted for the motion, and only the mover and seconder for the amendment.

The resolutions of the directors were accordingly adopted.

The CHAIRMAN said that the only bill now before Parliament in which they were directly concerned was that introduced by the member for East Aberdeenshire, and he hoped that that hon. member would see his way to withdraw his bill, in view of the action of this Chamber in the matter and the probability of a Commission being appointed.

A letter from a Caithness association in regard to road reform was remitted to the directors for consideration.

Mr. TAYLOR (Cushnie) suggested that an analysis of the evidence led before the Select Committee on the Game-laws should be prepared at the instance of the Chamber.

Mr. CURROR, secretary, said that such an analysis would be sure to be prepared by a lawyer without the Chamber requiring to prompt in the matter.

Mr. DUN and the CHAIRMAN having expressed their gratification at the numerous attendance at the meeting on this occasion, a vote of thanks was awarded to Mr. Smith for presiding, and the meeting separated.

LAND TENURE LAWS AND TENANT-RIGHT.

A special meeting of the Warwickshire Chamber of Agriculture has been held, to consider the following report presented by the committee appointed some months since to inquire into the laws on Land Tenure :

In reporting upon the subject of Land Tenure and Tenant-Right, we have not dealt with customary minor conditions, many of which it will be necessary to include in farm leases, as heretofore, but have confined our recommendations and suggestions in this report to the chief matters of importance.

1. We are of opinion that a much greater liberty of action in the cultivation of the land should be extended to the tenant than has hitherto been allowed.

2. We strongly recommend that the arbitrators should be appointed at the commencement of every tenancy, and that, in the event of any vacancy occurring in such appointment, it should be immediately supplied.

3. We recommend that farm tenancies should be subject to at least twelve months' notice.

4. We are divided in opinion upon the question, Which is the most desirable time for entering upon and quitting a farm ?

5. We recommend that before permanent improvements, upon which a tenant is to pay the landlord interest upon outlay, are made, the works and the cost of the same shall be specified and accepted in writing by the landlord and tenant, and that interest shall not commence until the quarter-day after the completion of the work.

6. We recommend that any building or structure made by the tenant, or any fixture belonging to him, which the landlord has declined to purchase upon the termination of the tenancy, may be removed by the tenant before quitting, upon making good all damages.

7. We recommend that rick-staddles and fixtures paid for by the tenant on entering, with the consent of the landlord, or which he has added during his occupation with the consent of the landlord, shall be taken off the tenant at a valuation, when quitting the farm.

8. Upon the question, Who should do repairs ? we are not agreed.

9. We submit for consideration a schedule (A) annexed, for indicating unexhausted improvements, and we recommend that, at the termination of the tenancy, the tenant should be paid according to this scale for the value of any item specified in this schedule which is proved to have been applied to the land.

10. We recommend that no account should be taken, and no payment made, for cattle food or manures used in excess of the average of three years, in any one year.

11. We recommend that a clearly-defined system of vouchers for proving the quantity and quality of all articles for which value is claimed should be adopted.

12. We submit for approval a schedule (B) annexed, for indicating exhaustions of the farm value, and we recommend that the landlord should be paid by the tenant, at the termination of the tenancy, according to this scale, for all exhaustions, and for all articles specified which are removed off the premises.

13. We are of opinion that all amounts owing in respect to the exhaustion or improvement of a farm, and all valuations, should be settled between the landlord and out-going tenant, and that all matters relating to a new tenancy should be arranged by the landlord and the incoming tenant.

We recommend that, if at anytime the arbitrators award damage against the tenant for bad farming, or other causes, to the extent of the amount of one half-year's rent, he shall be liable to quit the farm in six months, ending at the time he entered, upon receiving written notice from the landlord to that effect, and shall pay to the landlord such amount for damages as the arbitrators shall determine.

We have submitted the schedules A and B in blank, being of opinion that it is not desirable to undertake the labour of filling them up, until we are assured that the principle proposed would be approved.

We have agreed to report only generally upon the question before us at present, but we are of opinion, after considering the many attempts that have been made, and the little advantage which has hitherto resulted from dealing with this very important subject time after time, in a general manner (and we particularly refer to the report of the Select Committee of the House of Commons, July, 1848, and reprinted July, 1866), that, unless our labours are confined to produce such a definite system as will ensure protection to landlords and incoming tenants against improper claims and damage, in addition to provisions for giving security to outgoing-tenants, and that unless we demonstrate clearly the practicability of carrying our recommendations into effect, with safety to all parties concerned, all our efforts to arrive at a satisfactory solution of the question will prove equally fruitless with every previous attempt. We therefore suggest, if you approve or our recommendations, which we herewith submit, that we be authorised to confer with the committees of other Chambers, now sitting upon the subject of Land Tenure, and that you instruct us to prepare a form of lease and agreement, based upon the principles set forth in this report. Signed, on behalf of the Committee; 6th July, 1872,

JOHN FORD, Chairman.

Mr. FORD, the chairman, opened the discussion of the report by stating that, as a member of the deputation from the Warwickshire Chamber, he attended the last meeting of the Central Chamber in London, in June. There was a very large meeting, and the chief topic was "compensation for unexhausted improvements." Several resolutions on the subject were submitted to the meeting, but none of them adopted, and it was ultimately decided that the discussion should be adjourned till the Council meeting in November. There was a great difference of opinion as to the desirability of the adjournment, and the majority by which that resolution was carried was a very small one. He and others who were present were of opinion that some abstract resolution should have been affirmed at the Central Chamber, because it would have afforded a subject for consideration not only at a future meeting, but during the interval. By the action of the Warwickshire Chamber his views had been carried out. Those present would remember that on the 27th of January last the Chamber met to consider the subject of Land Tenure, and a very valuable and suggestive paper on the subject was read by Mr. T. Horley, of the Fosse. After considerable discussion, the Chamber appointed a committee to consider the general question. As was well known, that committee consisted of an equal number of tenant-farmers and landowners—six of each—and they referred the subject to a sub-committee, consisting of Mr. G. F. Muntz and Mr. T. Horley; but the latter gentleman fell ill, and was unable to discharge his portion of the work. Having out-of-doors heard great complaints as to the matter being so long in abeyance, and rumours that it would ultimately fall through, he felt it to be his duty to call the General Committee together again, and it was thought desirable to add to the sub-committee the names of Mr. Wakefield, Mr. Startin, and himself (the Chairman). The committee were much obliged to Mr. Muntz for his great foresight and untiring energy; to Mr. Horley, for his valuable assistance; and to Mr. Wakefield, for the sound practical good sense which he had brought to bear on the discussion. He and his colleagues did not submit their report with any idea that it was perfect; or as supposing for a moment that the Chamber would agree with all, or perhaps, half of what they had done. They offered their report with a feeling that it might form a basis of further action, and as suggesting a principle for future discussion, if not a sort of foundation on which they might build a superstructure. They had been actuated by the desire to do the utmost good they could both to landlords and tenants. He might say his interests lay rather with the landlords than the tenants, being more of a landlord than an occupier. However, his sympathies were thoroughly with the tenant-farmers, believing that in the existing state of affairs, and the present condition of agriculture, they required more assistance, and were less able to help them-

relves than the landlords were. He and those who acted with him had set aside all personal considerations. During their meetings he had never known a single instance in which party feelings had been entertained, or allowed to be introduced, their single aim being to do what they could for the Chamber and agriculture. It had been said that all they had done would be of no avail, and that it was of no use Chambers of Agriculture uniting and making reports, because their proposals were not compulsory, and that if any good was to be done it must be by Legislative interference. With all due respect, he differed entirely from those who entertained this opinion. The action of the committee did not prevent the advocates of legislative intervention from carrying out their views. Whatever might be the result of their deliberations that day, he should gladly fall in with the wishes of the majority. Some gentlemen said that their report was a very one-sided affair, and entirely in favour of the tenant; while others said, "We do not like your report; it is entirely in favour of the landlords." He had been glad to hear these opinions, because they showed that the committee had taken a medium course, their simple object having been to present a report which should not lean to either side, but be worthy the consideration of the Chamber generally. He hoped that all the members present had read attentively the report, and were now prepared to give it that fair and impartial consideration which he desired for it, and whether they approved or disapproved of it, he and the Chamber would be prepared to support their views and wishes. In concluding he invited discussion on the subject.

The report as above, was taken as read.

Mr. ENDALL, vice-chairman of the Henley Branch Chamber, approved of the committee's recommendations, but suggested the desirability of postponing the further consideration of the subject until after harvest.

Mr. MUNTZ said that although it was not proposed that the report should that day be finally adopted, it would be a great advantage to the committee if members would express their opinions upon it. Their object had been to arrive at the truth and to submit recommendations which were fair and desirable for all parties concerned. The opinions of members of the committee had been much modified at their meetings, and the present discussion might lead to further modifications.

Mr. SPARKS was not prepared to suggest amendments, not having had time to digest the report. He thought, however, there should be a better definition of what was meant by "a much greater liberty of action" being extended to the tenant in the cultivation of the soil. As to the committee's proposal that "arbitrators should be appointed at the commencement of every tenancy," he thought it would be better to give either owner or occupier the opportunity of referring to duly-appointed valuers rather than appoint arbitrators prior to an occasion arising for their intervention. Valuers should possess more power than at present, so that instead of acting from courtesy they might act decisively when their services were required. Farmers did not want any one up aloft overlooking their affairs, excepting those with whom they were in the habit of doing business. With respect to the committee's recommendation that "farm tenancies should be subject to at least twelve months' notice," he thought that was too limited a period, and that it should be eighteen months or two years.

Mr. MUNTZ said that words "at least" were inserted advisedly. He agreed with the proposal that any excess of three years average should not be allowed. Many farmers laid out a great deal of money during the first year of their occupation, an average amount in the second year, and little or nothing in the third. If he was simply compensated for the average consumption of the last year of the tenancy he would not receive fair play. If payment were made on the last year's expenditure, it would be unfair to the incoming tenant as the out-gor might lay out more than was necessary simply to get compensation. The Chairman had asked him to reply to Mr. Sparks' objection to the arbitration clause. He agreed with the clause as it stood in the report. He disapproved of the system of deferring the appointment of an arbitrator until a dispute arose. He had repeatedly noticed that when a dispute existed arbitrators were not generally chosen for their soundness of judgment or ability; but because they had some particular crochets corresponding with that of the person in whose behalf they acted. Each arbitrator had his particular views and inclination, and when they met together they often

had to call in an umpire to settle the dispute. If arbitrators were chosen before the existence of any differences they would not be selected for their predilections or crochets, but for their experience and character. If no dispute arose there would be nothing for them to do, but their appointment would obviate to some extent the present system by which a small difference was often fanned into a large quarrel, and would promote justice and equity between landlord and tenant.

Mr. W. SMITH (Woolston), speaking as a tenant-farmer, "into whose soul the iron had entered," wished to see a better understanding between owner and occupier, and a better system of Tenant-Right than at present existed. These things must come, and their arrival was only a question of time. He wished landlords would move in the matter, and not leave tenants to take the initiative. He agreed with the committee that greater liberty of action in regard to cropping was absolutely essential. With greater liberty there would be greater production. As to arbitration, he had been told that they ought to do without arbitrators. He wished it was possible to settle all disputes between the landlord and tenant alone, but he thought they would never do that. He considered that the notice to quit should be at least two years, in cases of good farming. He feared expecting to see the fruits of his labours after a lapse of seven years. If land was farmed badly, it might be ruined in two years. He thanked the committee for the excellent report which they had prepared, and their well-considered suggestions as to land-tenure. No "Tenant-Right" would be needed if all were good tenants and good landlords, acting on the principle of doing to others as they would be done by. With bad tenants and bad landlords, Tenant-Right was necessary to make each do what was just and right. Neither party should object to the principle, as it was advantageous alike for landlord and tenant. He observed that the committee were divided in opinion as to which was the most desirable time for entering upon and quitting a farm. He thought Lady-day was the best time for the incoming, and Michaelmas for the outgoing, tenant. As to specifying the cost of permanent improvements on which the tenant was to pay the landlord interest upon outlay, this proposal would be very good if they could get the landlord to do anything. It was a very great question whether they could get compensation without an act of Parliament. When he wrote asking for deductions for property-tax, it was allowed; but when he asked for compensation, he got insulted. The committee had made some good suggestions as to the removal of fixtures by the tenant, or their being taken at a valuation by the landlord. He had a copy of a Scotch lease, which provided that when any buildings which the tenant put up became dilapidated the landlord could call upon the tenant to repair them. He did not wish to take proper power out of the hands of landlords, but to ensure proper security to the tenant. He was desirous to see landlords protected as well as tenants. He thought that the clause as to liability to quit, on account of bad farming, at six months' notice, deserved serious consideration, and especial account should be taken of the seasons. On hard, stiff, undrained clay, the present had been a terrible season. If his farm had been for sale this year instead of last year it would not have been worth so much by £5 per acre, and this not from any fault of his own, but simply because he could not get on the land to do anything with man or horse, and on that, the 20th of July, he was no forwarder than he was on the 20th of March. He did not agree with those objectors, to whom their worthy chairman had alluded, who predicted that no good could come from the action of the Chamber in this matter. However, he feared that justice would not be done to tenants until public opinion was brought to bear on landowners. He hoped the public would speak for the farmers, as the latter dared not speak for themselves. He had been told that he would be a marked man for the part he had taken. He did not wish to be spotted, but he spoke feelingly and as a sufferer. They might tread on a worm till it turned, and they might break a camel's back at last. If the landlord and tenant changed places, and the landlord, instead of the tenant, had £600 or £8,000 taken from him, it would soon find its way into the newspapers; the importance of the subject would at once be acknowledged, and before another session of Parliament was over, the landed interest, without any Committee of Inquiry, would get Parliament to settle the question. After referring to Sir John Pakington's speech at Worcester, the speaker contrasted the security possessed in

trading and commercial pursuits with that prevailing in agricultural pursuits, and urged the necessity of giving greater security to out-going tenants. As to his own experience, he maintained that, during the eleven years prior to his farm being sold, he laid out £460 in manures, and thoroughly drained sixty-eight acres; but he got a six months' notice to quit, and it was only through the kindness of the lady into whose hands the lands passed that he did not get turned out of the farm. Farmers were now in a strait between the labourers on the one hand and the owners on the other, and if landowners did not help the farmers the matter would be taken out of their hands. Unless security was ensured to tenants, how could they expect the capital of the country to be applied to the tilling of the soil? To the landowners he appealed for help in the present difficulty, and he counselled his brother farmers to persevere peaceably, but earnestly, and success would crown their endeavours.

Mr. T. HANDS (Canley), could speak feelingly on the question under consideration. With Mr. Sparks, he did not wish to find fault with valuers, but rather with the system which bound them in their actions. The meeting was aware that he had been turned out, after having occupied a poor farm for four or five years. During that time he had, among other things, done a great deal of weeding of quick-set hedges; but the valuer had only allowed him for half the labour bestowed on the work. At a former meeting, Mr. Muntz had said the farmer should be compensated for his brains, and if he had been a bailiff brains would not, as now, have formed no element in the compensation; not only that, but they took half his capital. Nevertheless, he was told that his schedule was a very liberal one; and perhaps we were not the best judges of our own affairs. He set a quick-set hedge in 1871, and the valuers stopped one-fourth of the cost of the work. He used 467 waggon-loads of manure, besides 58 tons 10 cwt. of artificial, during the six years he had one of Lord Leigh's farms.

The CHAIRMAN: Did you not get compensation for that?

Mr. HANDS replied that he never received a half-penny. He laid down some of the land for four years to rest, and manured it twice in that time. On account of speaking too plainly what he thought he had been debarred from reaping the fruits of the money and skill he had applied to the land, and he could not help thinking that his property had been taken from him. He might add that the valuers only allowed him what they supposed to be fourteen-twentieths of the haulage for buildings and things of that sort. He also made a lot of gate places, &c., for which he had no compensation whatever.

Mr. J. J. BURBERRY expressed his acquiescence in the general recommendations of the committee, although he thought that further discussion would give to some of the proposals a more definite form. He saw no objection to the arbitration clause. As to the time of entry, there was no doubt that it should be a Michaelmas entry—as the tenant had then got his harvest, fed his stock, and could sell off and get well away. The in-coming tenant would then have time to become acquainted with the neighbourhood and the markets. He agreed with the proposal that amounts owing in respect to the exhaustion or improvement of a farm should be settled between the landlord and out-going tenant, and the matters relating to a new tenancy should be arranged by the landlord and the in-coming tenant.

Mr. SPARKS thought there was a feeling in favour of the appointment of a public arbitrator. He hoped that ninety-nine cases out of a hundred would be settled without the interference of the arbitrator. This system would result in a thorough ventilation of the complaints of agriculturists.

Mr. T. HORLEY was sorry to see so small an attendance, as it indicated that the question of land tenure was not receiving the attention which its importance deserved. Something might be said as to the season at which the meeting was held—it being in the midst of hay harvest—but he wished that more felt as warmly as he did in the matter, he having travelled above 200 miles to attend the present meeting. It was surprising that more landlords and tenants were not present. If greater interest was not taken in this subject in other counties it would be a long time before any beneficial result would be attained. Members should endeavour to turn public opinion more in the direction of a subject of such vast moment to the nation at large. By adjourning the debate to a date when

agriculturists were not so busily engaged, they might hope to see a good attendance of owners and occupiers. He approved of the arbitration clause in the report, as being the more practical mode of arriving at a sound and legitimate agreement when differences arose. Having taken considerable interest in the question, and being well acquainted with the views of gentlemen who were considered to be leaders of opinion in the agricultural world, he thought it would meet the general wish if in each county certain persons were appointed as arbitrators, to whom application could be made in cases of dispute. The persons selected should be thoroughly acquainted with the customs and practice of the respective districts. After hearing Mr. HANDS' statement, he was surprised to find that such things existed, and, as he knew none of the parties concerned, he could not be supposed to speak with any personal feeling. He thought it was the fault of the system rather than of persons. Everyone knew that a certain time must elapse before a tenant could receive any benefit from the skill and capital he applied to the land, and he was, therefore, entitled to compensation for unexhausted improvements.

Mr. W. SMITH asked Mr. Horley if there was anything worth calling a system of Tenant-Right in force.

Mr. HORLEY said that in many neighbourhoods a system derived from custom attained somewhat the force of law. Before any just system could become more generally prevalent there must be a greater interest felt in the whole question. Unless such an interest was excited the matter would be taken out of their hands and dealt with by the Legislature. He believed that nothing could now prevent legislative interference. There was a vast deal of trust and public property in this county, and, unless the law gave an enabling power, limited owners and trustees could not grant compensation for unexhausted improvements. Public bodies and trustees would gladly avail themselves of such a provision if it were a statutory enactment. He was of opinion that ultimately—and, perhaps, the sooner the better—they must ask the Legislature to take up the matter, and give the desired power to limited owners to make charges on their successors to property for the matters to which he had referred. It was an undoubted fact that a great deal of land was not farmed so well as it might be, and the difficulties in the way of accomplishing this object were increasing every day, and the flow of capital to the land would continue to be checked so long as inadequate provision was given for the security of capital so applied. After regretting that, in a large agricultural county like Warwickshire, no more interest was evinced in the question, he proposed that the further consideration of the Committee's report be deferred till the 3rd of November. This proposition was carried.

Mr. A. STARTIN (vice-chairman) proposed that the Committee be requested to continue their inquiries, and to confer with the committees of other counties now sitting on the subject of land tenure, and also to fill up schedules A and B as to unexhausted improvements and exhaustions of farm value. He regretted having been unable to attend the meetings, and was obliged to the Committee for the able manner in which they had dealt with the subject. He cordially concurred in most of the recommendations with respect to the liberty of action to be extended to the tenant in the cultivation of the land; he thought it undesirable to go too much into details. The enunciation of a general principle was all that was required on the part of the Chamber. The system of agriculture was changing day by day, and old systems of farming, like old musty agreements, were not in conformity with the existing state of things. He agreed with much that Mr. Sparks had said as to arbitration. It was essentially necessary that there should be a sort of Court of Arbitration, in which all parties should have confidence, and to which each should have recourse in cases of dispute. Such an arbitration court could not be established without the intervention of Parliament. The Legislature would never interfere with the right of contract between man and man; but, in cases of dispute, what was wanted was a court to which both parties could repair without being involved in much expense. Whether there should be arbitrators for respective counties would be a question for the Legislature to determine. The great desideratum was a court of appeal, to which all might resort, instead of being, as at present, involved in the expense of an Assize trial. In his own neighbourhood, for the last three or four years, there had been two

Assize trials going on, at great cost to landlord and tenant, and they would probably have to be referred to arbitration at last.

Mr. BERRY CONGREVE seconded the proposition.

The CHAIRMAN expressed his belief that the discussion that day would be productive of good. He mentioned that Mr. C. M. Caldicott was thoroughly with the Committee, having, with one or two minor exceptions, expressed his acquiescence in all that they had done. He (the Chairman) shared Mr. Horley's surprise at finding so few owners and occupiers evincing a practical interest in that day's proceedings. He thought that if they did not find a larger attendance at the adjourned discussion, the sooner they let the matter drop, the better.

Mr. SWINNERTON asked how far the meeting would be committed by the adoption of the report.

Mr. MUNTZ said the Committee did not ask the meeting to adopt the report that day. He was glad the feeling was that the consideration of the subject should be postponed until after harvest, as the matter was one requiring matured and protracted consideration. Taking what the Committee had done as a starting-point, members would, he trusted, in November, be prepared with suggestions for alterations and improvements. He did not believe in hasty action. As the most valued trees were the longest growing, so measures of the greatest good were often the longest maturing. He hoped to see no imperfectly developed scheme of Tenant-Right issue from the Chamber, but one which would be equally beneficial both to landlords and tenants.

Mr. Startin's proposition was carried.

THE MAIDSTONE FARMERS' CLUB.

THE A B C SEWAGE SYSTEM.

At the last meeting of the Club Mr. T. BRIDGELAND, jun., the Chairman, expressed his regret that the attendance was so small. He commented upon the absence of the Mayor, and the leading members of the Corporation of Maidstone, as they had introduced the subject, and also arranged the recent visit to the Bishop Stortford sewage farm for their special benefit. The question was not so much a one for the agriculturist as for those who lived in the towns; and, as he had no doubt Maidstone would ultimately be compelled to adopt some effectual system of drainage, he was surprised that so little interest was shown in that meeting.

Mr. J. ROCK, of Hastings, then proceeded to read the following paper: At the request of my old and esteemed friend, your vice-president, Mr. Lovett, I am here this evening to give what information I can upon the subject of manure manufactured from town sewage, especially that which is made by the so-called A B C process, and known as "Native Guano." I am neither agriculturist nor chemist, but simply a practical man, who has acquired considerable experience in the treatment of town sewage, and has had some opportunities of observing the results obtained from the use of manure manufactured from it. It is due to myself to state that although I am now commercially interested in the subject, I worked upon it for several years solely on sanitary grounds, with the object of benefiting the town with which I had been connected from childhood, and which had done me the honour to place me in a position in my opinion demanding from me my closest attention to everything affecting the health of its population. Using the facilities placed at my disposal by the Local Board of Health of Hastings for more than eight years, I have made many experiments with the sewage of that town, and after trying various processes, in one of which I was largely assisted both in purse and person by one of your most respected townsmen, Mr. Chas. Arkcoll, I at length, in conjunction with the Native Guano Company, undertook the treatment of the whole of the sewage of Hastings by the A B C process, which has now been in operation there more or less fully for about two years. The experience of those two years has been full of difficulty and anxiety. The utilization of sewage, like every other step in the process of civilization, has had its martyrs, and I look back with pain to the loss of three valuable lives in the earlier operations of the company with which I am connected. But I must not in this brief paper dwell on circumstances and details not immediately connected with the object of this meeting, namely, to discuss the value of manures manufactured from town sewage, and, incidentally, the utility of such a manufacture as a sanitary measure for the benefit of town populations. My audience, I believe, consists both of residents in this town and of agriculturists using land in the neighbourhood; I feel, therefore, that I may be expected to say something on the subject of utilizing town sewage, both as affecting the town, and as affecting the country. Of the two opposite, or if not opposite at least broadly distinguished, plans for utilizing sewage, viz., irrigation with sewage water and the manufacture of a portable manure, I am inclined to think, after much

consideration, that the plan of manufacturing a dry manure is the one which is the most hopeful in regard to the future, both for town and country. Hitherto, or till very recently, irrigation was the only plan that received any favour from central sanitary authorities, from chemists, and from engineers. At first sight it appears the most natural way of disposing of the excreta of human beings, and the refuse which accumulates wherever men "most do congregate," and while the possibility of converting these substances into a portable manure was by no means demonstrated, it is not surprising that when engineers or chemists were called in to assist towns under sanitary difficulties they should recommend the adoption of the only method which seemed at all certain to remove those difficulties. Besides, as irrigation necessarily involved the outlay of large sums of money, and furnished employment for engineers, it is easy to see that this plan would be preferred by engineers before any other, which, besides not having been proved thoroughly successful, would, if adopted, transfer the work into other hands than their own. I trust, however, that there is some hope of a change in the manner of viewing this subject by the leading members of the engineering profession. It is beginning to be understood that neither irrigation or manure manufacture will alone provide a universal remedy for the difficulties in which large towns find themselves in disposing of their sewage. The President of the Institution of Civil Engineers, Mr. Thomas Hawksley, in his inaugural address on 9th January, 1872, says (p. 19): "The question of the best means for effecting the purification of sewage-water, and for the utilization of sewage matter, is still unsettled, and the controversy has assumed the dimensions and character of a party conflict, in which the fact that the truth is not wholly with either party, and yet is partly with each, has been almost if not entirely lost sight of. That the application of liquid sewage in aid of the cultivation of land may be the means of raising prodigious crops of certain descriptions of vegetables no one will deny, but it is far from being established that the results can be realised with profit, or indeed without occasioning a serious loss, when the operation is to be performed, not at the cultivator's will, but under the constant pressure of legal and sanitary obligations. Nor has it been shown how or where the larger towns can acquire, at a reasonable distance, of a suitable quality, and at the requisite elevation, the enormous areas of land the employment of this system requires, or how or where a daily market is to be found for the excessive quantities of the peculiar and perishable productions of an extensive irrigation farm. I admit the principle is sometimes applicable to the needs of small communities, but I have not as yet seen any evidence of its general availability in the cases of large communities, although of course special instances, exceptional to any general rule, may perhaps exist." This paragraph expresses very concisely the convictions of an eminent hydraulic engineer, whose special occupation has given him exceptional advantages in forming his conclusions, and might induce him, if he were open to the influence of pecuniary considerations, to throw the weight of his opinions on the side of irrigation. Let us

hear what he has to say on the opposite side of the question. On the same page (19), he says "On the other hand, the process of precipitation by chemical means seems to me peculiarly suitable for adoption in those frequent cases in which the utilization of the sewage by the process of irrigation is infeasible. That the sewage can be readily cleansed by chemical means to a sufficient extent to render the effluent water reasonably admissible into a running stream I have often witnessed. That the process has hitherto been conducted with all the care and attention it requires, I do not believe, and that it is or can be made a source of profit to the manufacturer of artificial manures remains to be demonstrated. As an engineer wedded to no system and belonging to no party, I desire that this process should be allowed that measure of fair play which has not hitherto been accorded to it, if only for the not unimportant reason that it involves a capital of about an eighth or a tenth part of that which must be embarked in works of utilization by irrigation, and I also wish that it should not be hastily ignored and discountenanced by, or in consequence of, central interferences with the discretion of local authorities." As I am not here this evening to speak of the whole of the sewage question, but only of that part of it which I am best acquainted with, I will not pursue the comparison between irrigation and precipitation, which Mr. Hawksley has thus briefly made. I will proceed to explain the A B C process, as now practised at Hastings, Leeds, Crowsness, and elsewhere, and to mention a few of the practical results which have been obtained from it, both as a means of purifying town sewage and of manufacturing manure. You are doubtless aware that the process invented by Mr. William Sillar, and worked out by himself in conjunction with several chemists and others, forming the staff of the Native Guano Company, is called the A B C process, from the initial letters of the principal ingredients in the compound used to precipitate the solid matters of sewage—alum, blood, and clay; but as charcoal is also used, the third letter should be doubled. In the first instance, alum manufactured at Whitby was used, but now a crude sulphate of alumina, made on the works, is employed, and while it effects a great saving of expense, is found to answer nearly as well as pure alum. I have specimens of the A B C compound and of the substances composing it, which I cannot describe better than by quoting from one of the reports made by Mr. Hills, late manager of the Hastings Works. He enumerates the ingredients as crude sulphate of alumina, fresh blood, charcoal, and clay. The use of blood in this precipitating compound has given rise to much controversy. Some eminent chemists have considered it quite useless, and have even taunted the Native Guano Company with it as a piece of empiricism; one remarked, "Oh! that's your magic." Most of the chemists in the employ of the company have been equally sceptical at the outset, but after much experimenting with sewage, they have all come to the conclusion that blood exercises an important influence both in purifying the water, and improving the manure. The A B C compound is ground in a mortar mill, then mixed with sewage-water in pits or wells, where it is well stirred by agitators; it is then pumped up in measured quantities, and poured into the sewer at the point where it enters the large tank used to receive the whole of the town sewage; here sewage and A B C compound are well stirred together by an agitator, and flow into one of the two divisions of the tank. When that division is sufficiently filled, the flow is turned into the other half-tank, and the first portion is allowed to settle, when the supernatant water is let off, and the mud is pumped up to a large tank at the top of the works where it settles again. A further portion of the water is let off from the surface, and the mud, just then enough to flow through the wooden trough connecting this upper tank with a steam drying floor, passes in that way to the floor to be dried. The steam floor is heated by means of the waste steam from the engine employed to turn the agitators and other machinery, and is covered by flat wooden covers a few inches only above the surface of the mud. The smoke from the boiler furnaces, which is made to pass over the surface of the mud, helps to dry it as well as to deodorize the vapour. The vapour and smoke together are drawn off by means of rapidly revolving fans, and escape into the air through chimneys filled with coke, through which water is kept trickling down. In this way the vapours are "scrubbed" or washed, and pass off without any offensive smell whatever. Other methods of drying are used at some of the Native Guano

Works, and the local arrangements of each place differ somewhat from those I have described. When the manure is taken from the drying floor, it is placed in heaps, where it ferments and heats; when thoroughly well "rotted," it is passed through a disintegrator to reduce it to powder, and then packed in bags for delivery. Such, then, is the A B C compound, and such is the process for using it. As you are aware, it is not the only process for precipitating the solids from sewage and utilizing them as manure. There was first the lime process which was tried at great cost at Leicester, and failed, because the manure was found to be of very small value. The Leicester Bricks, as they were called, were valued as low as 12s. per ton. The lime appeared to have the effect of driving off all that was valuable. Noone's plan was to use the lime to throw off ammonia into a vessel containing acid, which fixed it. The ammonia was then recovered from the acid by evaporation, and returned to the manure. Other plans have been tried which I have not time to mention. The most prominent one is the Phosphate Sewage Company's process which has excited a good deal of attention, and has been received with considerable favour by persons who think that a good manure cannot be made from sewage alone, but that the sewage deposits require to be "fortified" by the addition of known manurial substances. There is something which has the appearance of frankness in saying as the Phosphate Sewage Company do: "We do not profess to make a manure from sewage alone, but we purify it by means of a substance containing a large quantity of phosphates, and thus make a valuable manure." The Native Guano Company, on the other hand, say, "We profess to make a valuable manure from sewage alone, by means of chemicals, not known as manurial substances, except the blood, which is used in such small quantities as to be out of the question; those chemicals being for purification alone, and not to fortify (or strengthen) the manure." They rigidly adhere to this, and when I have urged them to make a compound manure, adding some substance or other known as a manure, they have replied, "We cannot do it—an independent company using the A B C process may do it—the Native Guano Company cannot. We say we can make a good manure from sewage alone by our purifying process, and that only will we do." As a matter of fact, I know, from having worked with the A B C company for two years, that their practice agrees with their principle, notwithstanding what was said to the contrary in the report of the Rivers Pollution Commissioners. To return to the phosphate sewage process, it is doubtful if it accomplishes either of the objects it professes to do. As to purification of sewage-water, it takes out none of the nitrogen, and it adds phosphorus; both of these substances indicating sewage impurities, and rendering the effluent water unfit to go into a river. A letter by Mr. W. Hope, in the *Money Market Review*, of March 9th, points out the objections to the phosphate process very forcibly, and, I think justly. I have not heard of any results from the use of manure made by the phosphate process. I am doubtful of its value, for although by analysis phosphoric acid is present in considerable quantity, it is in conjunction with alum as phosphate of alumina, which is an insoluble salt, and, therefore, not likely to be useful to vegetation. I have lately urged on the Native Guano Company that they should make two kinds of manure—one, the native guano, made from sewage alone; the other, compound native guano, made from sewage solids, and other substances compounded with them. This is what I had intended doing if I had gone on with Noone's process; in fact, Noone's patents, now in the possession of the Native Guano Company, claimed the manufacture of compound manure of this kind as part of the invention. Hitherto no attempt has been made to manufacture a compound manure at the Hastings sewage works. The manure made there is strictly a sewage manure—an entirely "native" production, both as to the raw material and the substances used in its manufacture. I will now briefly state the chemical components of native guano, give a few instances of its agricultural value, and conclude with some remarks upon the usefulness of the A B C process as a sanitary measure for towns. The chemical analysis of native guano does not show a high proportion of those substances by which chemists usually estimate the value of a manure. The following is an analysis of native guano made by the Rivers Pollution Commissioners:

Organic matter, containing 18.15 parts of carbon and 1.55 part of nitrogen.....	34.27
Ammonia	0.16
Phosphoric acid	1.98
Clay and other useless mineral matters	56.13
Water	7.46
	100 00

Total nitrogen calculated as ammonia—2.05 per cent.

This analysis obviously suggests the question—If this manure is really valuable, why is it so, seeing that it is so deficient in that which is considered the most valuable constituent in our best manures, viz., ammonia? Baron Liebig's remarks in a recent work on the "Chemistry of Agriculture and Physiology" may supply the answer. He says (p. 212): "It is of great importance for agriculturists to know with certainty that the supply of ammonia is unnecessary for most of our cultivated plants, and that it may even be superfluous if only the soil contain a sufficient supply of the mineral food of the plants, when the ammonia required for their development will be furnished by the atmosphere. It is also important to know that the rule usually adopted in France and Germany of estimating the value of a manure according to the amount of its nitrogen is quite fallacious, and that its value does not stand in proportion to its nitrogen." He also says in the same work (p. 180): "In the solid and liquid excrements of men and animals we restore to our fields the ashes of the plants which served to nourish those animals." Mr. Crookes, the editor of the *Chemical News*, and now chief of the Chemical Staff of the Native Guano Company, says that this manure contains a large number of manurial elements so finely divided and so proportioned to each other as to form a food for the plant which it can readily assimilate. But whatever chemists may know, or conjecture, on the subject of any kind of manure, after all, the practical use of it is the real criterion of value. Judging in this way, I have satisfied myself that native guano is a good manure. My personal experience is limited principally to grass and vegetables. By means of it, used two years successively, I have converted a poor, dry, worn-out field into a good meadow. My garden for the last two years has had scarcely any other manure, and it has never before had such crops in it as it has had the last twelve months. My cabbages, brocoli, turnips, parsnips, and carrots have been the finest in the neighbourhood. Many of my parsnips weighed 3½ lbs. each. Vegetable marrows, cucumbers, and peas have done well. Old rows of strawberries, worn out when I took my place four years ago, are now like new plants after two dressings. I am not sure that I have found out the right way of using the manure with potatoes, with which I have not obtained any striking results. With cabbages it beats Peruvian guano used in the proportion of two to one, i.e., two of native guano to one of Peruvian. I am trying a few hops on a piece of ground which has had no manure of any kind for two years, cropped last year with broad beans. This has been manured with native guano at the rate of one pound to a hill, and when I planted my hops I gave each hill another half-pound. By the end of May some of the sets had reached the tops of the ten-foot poles, but some, having been nipped by the late frosts, had not grown more than half-way up. All, however, were looking healthy and vigorous. At the present time, July 24, they are looking extremely well, more like second year's hops than first year. Those planted with cut sets, quite late, are nearly as forward as the others. There are no first year's hops in my part looking so well. From my study window I look on a hop-garden about half-a-mile distant, which had a dressing last autumn, and I can see distinctly at that distance where the native guano was used. The general experience of farmers and gardeners who have used the manure will be best gathered from the testimonials published by the Native Guano Company. My conclusions from reading them are that for all kinds of roots the manure is extremely good, also for peas and strawberries. I feel convinced, too, from what I have seen in my own neighbourhood, it will be found good for hops. I am not so sure of its good effects on cereals, but I have both seen and heard of some good results. I have ascertained from the secretary of the Native Guano Company that he sent out two hundred letters of inquiry. He received one hundred and sixty replies, of which only twenty were unfavourable. It is necessary to succeed that the manure should be used again and again on the same ground; a single experi-

ment is no sufficient criterion, and the manure should be well mixed with the soil. All my best results have been obtained in the second year of use—even when no second dressing has been given—proving that while on the one hand the manure may be slow, on the other hand it is lasting. I have had two excellent crops of pickling cabbages from the same ground with one dressing, and the patches of strawberries first manured with native guano, are still the best parts of the rows, although all have since been manured. If any farmer will use this manure in his garden as I have done, he will soon wish to try it in his fields. Let him begin with cabbages. The value of the A B C process, as a means of purifying the sewage-water of towns, has been fully demonstrated at Leeds, where the sewage flowing in at one end of the works black as ink, flows out at the other end perfectly clear, and so entirely devoid of nauseous taste or odour that many persons have drunk it without repugnance or ill effect. In fact, the purification at Leeds is so complete that on the Town Council undertaking to apply the A B C plan to the whole of the sewage of the town, the injunction in Chancery under which they lay has been removed. But, besides purifying the water, the A B C process has another good result. Where it is necessary, as at Hastings, to have a covered tank at the outlet of the sewer, the compound purifies the air in the tank to a remarkable extent, thus diminishing the chance of the drains communicating with houses becoming surcharged with dangerous sewage-gases, as has occurred at Scarborough and elsewhere. I attribute the healthiness of Hastings in no small degree to this purification of the air in the tanks, in conjunction with the excellent system of drainage, and the admirable method of ventilating the sewers arranged by Mr. Andrews, the borough surveyor. I think I cannot do this town of Maidstone a greater service than by recommending the authorities to adopt the A B C system. It may be worked here well and economically. At Hastings we have difficulty in drying the manure, in consequence of the very limited space at our disposal, which obliges us to use artificial heat. If we had greater space we should use cold drying exclusively, by which we should save a large sum now spent on coal, and perhaps improve the manure. To agriculturists in this neighbourhood it must be of importance that the substances now thrown away through the town sewers should be converted into a portable manure, which can be applied whenever and wherever they please, and be produced at a moderate cost.

Dr. MONCKTON pointed out the obscurity which involved the sewage question generally, and the difference of opinion, of which the highest authorities were the victim. It would be more than useless to attempt then and there any settlement as to the best mode of purifying towns. The A B C was one method, and he ventured to think its success or failure might be determined out of the contents of the glass bottle before him. The manure therein contained was the point most interesting to them as farmers. If that manure was worth £3 10s. per ton, Mr. Rock stated that the process could be continued at Hastings, and applied elsewhere as a paying enterprise, imposing no costs whatever upon the towns. If, however, the product offered to the farmers was worth only 20s., it seemed too likely that the system must ultimately collapse, unless the sanitary result and the sewage cleansing was so perfect, that towns would be willing to subsidize the factories out of the rates so as to more than cover the margin of loss, whatever that might be; even this latter point had better be wholly omitted from their discussion that evening. He, at all events, should confine his observations to the manure. Mr. Rock was to be congratulated at starting, on having acknowledged at once, that, judged by the ordinary tests of agricultural chemists, the A B C manure would not be valued at anything like the price it fetched, and he quoted Baron Liebig to show that, nevertheless, it might be fully worth the amount charged. This was asking them to surrender the only compass and repudiate the only chart that was available offhand in such matters. The onus, and a heavy one, was thrown upon Mr. Rock to show by some hidden and undiscoverable property that the A B C manure was able to achieve results which its ingredients, otherwise combined, failed to touch. The system many years relied upon for the valuation of manures was this, that each sample should be regarded as about worth what its constituents could be bought for separately in the market and mixed together, just as the value of a bowl of punch might be arrived at by adding together the cost of the spirit,

the lemon, and the sugar. Nor was this a mere book process, or one based upon theory alone. Chemistry showed that rape-seed contained one-third as much ammonia as guano. Practice had long taught that about 7 cwt. of the latter was an equivalent dose to one ton of the former, and in endless ways the trustworthiness of this method had been established. Two years ago by careful analysis, checked by a counter analysis performed in London, he (Dr. M.) had convinced himself that the article then being sold at Hastings and Leamington was worth one thirteenth part the price of good Peruvian guano. The sample put on the table that evening certainly looked better than those examined two years ago; but Mr. Rock's own analysis did not show much improvement in value. Either, then, most indisputable evidence of the clearest kind must show that this manure differed utterly from all other sorts, or farmers could not give more than 20s. or 30s. a ton for it. One difficulty in getting this view accepted would be found in the fact that even the most genuine manures sometimes failed to satisfy the farmers; agricultural results did not always co-exist with commercial value. This must always be expected; but if the farmer began by purchasing an article commercially dear, he was very much less likely to find it agriculturally cheap. In fact the following propositions might be pretty well assumed: 1. As a rule, if a manure had got very little in it, very little good would be got out of it. 2. As a rule, it was the right thing to spend money on that which was commercially worth it, agricultural effects being assumed to follow the quantity and value of chemical ingredients. 3. The wisest purchaser of manures will find his dressings fail twenty-five times out of a hundred, and no blame to his merchant for its being so; but he who starts by giving 70s. for a set of ingredients which he can buy in other shapes for 20s., must expect to make a mull of it seventy-five times out of a hundred. He suggested that the very best help the farmers' club could give to the whole sewage question would be to take twenty tons for twenty members at £2 per ton, undertaking to use the same experimentally, and to report results in one year.

Mr. BARLING said he rose to take quite a different standpoint to that taken by Dr. Monckton, inasmuch as he had touched only upon the question in its commercial aspect, whereas he (Mr. Barling) considered its sanitary aspect a much greater consideration. He denied that the town authorities were at all apathetic or indifferent in the matter, or that they were niggardly where the health of the people was

concerned, but the reason why no active steps were taken was that they had not any data to go upon, and were waiting till they could see their way clear to adopt some scheme which should be effectual. He pointed out that the probable reason why so few of the townspeople or members of the Council were present was that the subject had been thoroughly discussed at a recent meeting in the Town Hall. There were three principles, he said, that sewage authorities had to deal with—1st, to so arrange their sewers that the matters which entered them might be wholly confined to the sewers through which they had to pass; 2nd, when the matter reached the end of the sewer to deal with it in a manner least injurious to health; and 3rd, that it might result in as small a burden to the ratepayers as possible. He alluded to the success of the A B C system at Hastings, and to the fact that it had been so thorough that the injunction which had hung over the town had been withdrawn; and condemned the haste with which schemes of sewage were often forced upon towns by the Local Government Board. Many of "the ills that flesh is heir to" were attributable to defective drainage.

Mr. LINTOTT inquired as to whether the scheme was a commercial success, or whether any burden was cast upon the ratepayers.

Mr. ROCK, in reply, took exception to the mode of valuing manures by chemical analysis, and said the benefit was not always derived from what they put into the soil, but they might give the plant something by applying substances that would enable it to gather from the soil or atmosphere what was required for its growth. In answer to Dr. Monckton's question, he stated that the quantity of manure he placed on the hops he had spoken of was 7 cwt. per acre, and said he would try it next year by the side of some other manure. In reply to the question put by Mr. Lintott, he said the work was carried out without any cost to the ratepayers at all, the town simply giving them the sewage, and a small piece of land upon which to carry out the process. He expressed his willingness, in order that the manure might have a fair trial, to send 20 tons to be tried in twenty different places by the side of some other manures. At the end of twelve months, a report should be made from each place as to the result, and if it was not favourable to the manure manufactured by the A B C process, no payment for it should be made, but that if it was, payment should be at the rate of £2 per ton, instead of £3 10s.

The offer was at once taken up, and the meeting was brought to a termination with a vote of thanks to Mr. Rock.

CARMARTHENSHIRE FARMERS' CLUB.

IRRIGATION.

At the last quarterly meeting held at Carmarthen, under the presidency of Mr. T. T. Mousley, about seventy members were present at dinner. After the removal of the covers the customary raffle took place with the following result: A set of shaft harness, Mr. Thomas, Penlanvoss; a churn, Mr. Warren; a curd mill, Mr. Humphrey, Coed; a circular pig trough, Mr. Morris, surgeon; a circular pig trough, Mr. Thomas, Tyllwyd; a cart rope, Mr. Rees, Penlan; a dung-fork, Mr. Rees, Llwynfortune; a dung fork, Mr. Rees, Pibwr; a dung fork, Mr. Harries, Pil-roath; a spade, Mr. H. Norton, jun.; a spade, Mr. Williams, Newfoundland; a spade, Mr. J. M. Jones; a hayfork, Mr. Duntz; a hayfork, Dr. Norton; a hayfork, Mr. Campbell; a hayfork, Mr. Davies, market man; a hayfork, Mr. Gwyn; a hayfork, Mr. Williams, Lime Grove.

Dr. HOPKINS introduced as the subject for discussion "Irrigation," and said: I have been requested to introduce a subject for discussion at this meeting. Considering that most of the ordinary subjects have often been placed before you, and especially the subject of draining, which has been ably and fully commented upon, the result has been that in our condemnation at the excess of water in cultivated and other soils, the utility of that water as a fertilizer has been too much overlooked, especially as three-fourths of the soil in Wales suffers from the opposite extreme of drought. It may be taken as an aphorism that it is difficult to get too much water, provided it circulates

readily through the soil and does not become too long stagnant. I beg, therefore, to introduce the subject of "Irrigation" to your notice and attention. Artificial irrigation consists in conducting water from some natural source of supply, such as rivers, springs, lakes, or rivulets by means of channels or ducts, to the cultivated land which it is desired to irrigate. In some places this is done by throwing dams across rivers so as to raise their levels, and by forcing the water into a canal, cut from the river at some point above the dam; the canal is then carried along the highest grounds consistent with giving a sufficient slope to its bed to insure a regular flow of water, for which minor channels are led off for the purpose of distributing the water to the various fields or divisions of lands. Where existing lakes are found, the process of leading off the water in canals is simple enough, but artificial reservoirs are often constructed by damming up a gorge in a range of hills, in which is collected and stored all the rainfall draining into it; and where rock abounds, a practice prevails in some parts of excavating a subterranean passage, having the usual slope of an irrigation canal in the direction where water is supposed to exist. Time will not permit me to enter fully into the elevation climate, and character of our district, or the direction, slope, or exposure of its various parts involving by altitude diminution of heat, dryness of air, and a scarcity of those substances which are produced by the decomposition of organic bodies in high places, the rains, as well

waters of the springs dissolving and washing them off as they run away to the valleys which makes the poor uplands gradually poorer to enrich the lower in some degree, but not to the extent of the loss to the uplands; the utilizing, therefore, of the water from springs, drains, and rains constitutes the art of irrigation. This art, which is of great antiquity in all known countries, instead of being further developed, has everywhere been more or less neglected with the exception of Switzerland, entailing an enormous loss upon the inhabitants, and gradual deterioration of high lands already suffering from thinness of soil, and its accompanying aridity. Unfortunately, the hilly parts with which we are surrounded are by climate and position rendered inferior to other more favoured situations, the herbage being more scant than in a low place or valley, which entails upon it a number of both consequent and accompanying disadvantages. Its grass lands yield a less succulent and nourishing herbage, and are slower in reproduction, and earlier exhausted in the autumn. Its cereal crops bear less plump grain, run more to straw, are longer in ripening, and more liable to accidents. Its soils are more seriously washed away by heavy rains, and more deprived of their finest particles after every process of tilling and pulverization. Its facilities of obtaining extraneous manures are much fewer, and its obstacles to every description of horse and steam labour more numerous and stubborn. Its lands are colder, more denuded of argillaceous and calcareous powders, more gritty, gravelly, and stony, and less fitted in both mineralogical and mechanical condition for producing wheat or the other valuable grains. On such lands in high and occasionally humid situations the principal objects ought to be good grass for pasture and the ample supply of winter food for live stock, and the attainment of these objects ought to be sought by the improvement of grass lands, the wise management of hay meadows, and the cultivation of lands fit for producing turnips and other green crops for cattle. In aid of these objects, gentlemen, I consider irrigation a most valuable and rarely failing adjunct in this country, and one which if practised where practicable, will be found as profitable in high and sloping grounds as draining ever has in wet and impervious soils. The methods adopted in India, Arabia, France, Peru, China, Spain, Italy, and at a still earlier date in Africa, have been conducted since the age of the earliest histories of those countries, and have been conducted on the most extensive scale by means of diverting rivers by dams, and conducted to tanks and channels, sometimes under and sometimes above ground to the cultivated land which it was destined to irrigate; but I propose a more simple, more general, and inexpensive mode for our climate, which is of a vastly more humid character. When it is remembered that water, either in summer or winter, is led across a field naturally dry either by itself or with the assistance of what sewage might be obtained, or the addition of lime or sal ammoniac in small quantities, the effect is quickly seen, and even when nothing but the natural salts which all water, however pure, contains; the cattle, who are the best judges, eat it with great avidity, and when left for mowing the crop is increased by five or six times the amount, and the effect is very lasting as may be noticed by what is called the "Cae odan Ty," or the field under the house on hill side farms. There is scarcely a farm in this country so situated that may not be rendered much more profitable at a very small expense; at any rate one or two meadows might be so made from such a source in addition to their natural meadows already existing. The cheapest way to do this is to make small furrows with the plough, running with a gentle fall across the sloped field or pasture, damming it up with a little wooden or iron spade, to be raised from time to time and altered in position so that the water may run over and the excess caught in the lower drain and treated in the like manner. The turf coming out with the furrow should be gathered in heaps, mixed with lime, nitrate, or muriate of ammonia, and spread evenly over the surface; although some of the surface is lost that loss is much more than compensated by the top-dressing so applied, a sort of what drainers call sheep draining, excepting no main drain is used as in such sheep draining, the diagrams of which you will see in almost all the works upon draining. I have seen this plan tried, and have tried it myself with the most satisfactory and permanent results. Its great recommendation is its cheapness and efficiency, and it can be undertaken by small holders without any serious outlay.

All water, whether from heavy rains, brooks, springs, or drained land, may be so converted to use, especially when assisted by the fertilizers before stated. I have known three crops of Italian rye-grass mown in one year, treated by irrigation combined with sewage. Even water alone contains in nearly all instances an amount of fertilizing salts so diluted that it is at once absorbed and assimilated by the pastures. Water is always impregnated with atmospheric air and a minute quantity of carbonic acid. Deprived of air it is not agreeable to drink; it is even known when long continued to prove unwholesome. If the dissolved gases are expelled by ebullition river and brook water usually contains one-thirtieth in volumes of air, and one-fiftieth carbonic acid. In spring water the amount of the latter is sometimes far more considerable. The quantity and nature of saline ingredients in drinkable water vary much; in an agricultural point of view, the study of the contained salts would certainly be useful. The waters which serve as drink to the cattle of a farm introduce to the dung-heap all the matters which are dissolved or held in suspension. It has been found that on an ordinary-sized farm, more than two cwt. of alkaline salts get into the dung heap in this way every year. You will thus perceive that irrigation by plain water must be of enormous service, applied to the surface of light and dry pastures. Salt you will find an excellent and cheap addition to irrigated fields. Salt is not a thing which shows itself conspicuously in the production of great luxuriance, but rather in giving strength to the stem of the wheat, and I may say an admirable condiment and healthful improver of grass lands. This substance can be sown broadcast in any weather, about 4 cwt. is a good dressing for an acre of grass land; if mixed with 2 cwt. of guano for grass or wheat so much the better, or mixed for a time with the furrows taken out will be still better, to which may be added, the cleansing of the ditches.—All this I admit involves labour, and labour is now very dear, but the result will show it is worth all the money and something more. Those who have made vegetable physiology their study know that in agriculture and other forms of vegetable propagation it is difficult to get too much water upon pervious soils, and does not remain stagnant for a longer time than is required to separate most of its fertile properties. I may add that the manures deposited upon the surface by cattle, sheep, and horses during the heavy rains so constantly recurring in this country, and carried into the brooks, then to the rivers, and thence to the sea, become altogether lost to the cultivator, but by proper adaptation and care artificial irrigation will secure to him his legitimate share of that advantage which should exclusively belong to his taking. In conclusion, I may state that it is undoubtedly one of the most important duties entrusted to man that he should learn to control the elements, and by bringing science and art to bear upon the works of Nature to render them subservient to his will in promoting the general welfare of the human race, and to contribute to its every day requirements. Thus we see that destructive elements like fire fairly brought into subjection and forced to contribute to our wants in a thousand different ways. The earth yields its hidden treasures for a similar purpose, and every description of soil which covers the surface has its allotted task to perform; whilst air and water, in addition to being absolute necessities of existence, have yielded the force and power with which they are invested to be applied in an infinite variety of ways to the wants of mankind.

Mr. CAMPBELL said that as regards salt some seven or eight cwt. per acre might be used on dry land with advantage.

Mr. DAVIES, of Cincoed, said for the last twenty years he had practised irrigation on a small scale; and fortunately there was a spring of water in his farmyard which never failed even in the dry summer. This spring fed a pond secured by a wall, into which was made to flow the liquid from the dung heap and the manure from the cow stables. There were channels over a portion of his farm connected with the pond; and when the latter was emptied, it gave a thorough irrigation to about six acres of land, and did immense benefit. After such irrigation the land needed no further manure, and excellent crops were obtained from the portion so irrigated. Four years ago he drained this land four feet deep, and a considerable distance apart; and it was since the draining that the result of the irrigation had been the most visible, for he was now able to get good crops of hay from land that was very inferior previously

to the draining. His brother farmers, he hoped, would not think him too ambitious in advising them, whenever they had a stream of water running into their farm yards, to utilise it by turning it into a pond, and to allow the sewage from the cowhouse to flow into it. By so doing they would greatly benefit. In most places the manure water from the farm yard was running into the ditch, and the fact was that the home-made guano went with it.

Mr. HARRIES, Llandilo-Abercowin, pronounced the sewage of the farm yard to be the best and cheapest manure that could be obtained when carried over the land; and he was sorry to be obliged to agree with Mr. Davies in his assertion that some farmers permitted it to run waste. Where a farmer had no springs running through his yard, he ought to make a tank for the reception of his liquid manure.

Mr. HARRIES, Penllwne, who was introduced by the chairman as one who had successfully dealt with water under the soil, said he had also been successful with water above the surface. The plan mentioned by Mr. Davies, of Cincoed, was the very one he had himself adopted, with this addition, that he was careful to make use of the mud deposit at the bottom of the pond. He generally drove some of the cattle into the pond so as to disturb this sediment and get it mixed up with the water; and it was after this that he turned the water upon the land. It was by that means that the very best manure was obtained. After manuring his land in that way he now found he got from it double the former quantities of hay. Where that practice was followed the farm yard was utilized to the utmost extent. There were one or two things which Dr. Hopkins had omitted in his paper. It was not every kind of water that was fertilising. And again, there was the question as to the best time of the year for irrigation. For some soils the spring was by far the best. Reverting again to the kind of water to be used, he would say that it ought to be tested. He had himself tested one or two springs, and found that the result of irrigating with them was that nothing but rushes afterwards grew. Others again would cause good crops to be yielded. But wherever he found a spring on his land, he endeavoured if possible to utilise it; and any other farmer who failed to do the same was simply throwing money away.

Mr. LEWIS (Gurry) said he had recently seen a proof of the benefits obtained by the distribution of sewage over land at the Merthyr sewage farm. That farm was manured by the sewage from the town of Merthyr. He had not been all over the farm, but from what he saw he had formed the conclusion that good crops were everywhere obtained. In some instances these crops had paid at the rate of from £20 to £30 per acre. Now if the sewage of the smaller towns in Carmarthenshire were utilised in a similar way the benefit would be great. For example, the sewage of Llandilo was allowed to go to waste. But there, however, the water from the slaughter-house was taken down to the field of Mr. Thomas, timber merchant, and the result was that his grass crop was too heavy this year to be made into hay. Care should be taken in the construction of farm houses that the site chosen was sufficiently elevated to permit the farm manure to be distributed over the land. This had not always been done in the past.

Mr. GWYN, the vice-chairman, stated that he had not done much in the way of irrigation. Some eighteen years ago he drained the whole of his meadows, and it occurred to him that the next best thing was to irrigate them. Unfortunately the irrigation was commenced too soon, for he shortly discovered his drains to be filled with the sediment from the farmyard pond. He mentioned this as a reason why he had not done much in the way of irrigation, and as a caution to others. Since that experience he had not ventured to run a similar risk a second time. Still, it was an unquestionable fact that if irrigation were carried out in the manner proposed by Dr. Hopkins great benefits would ensue; although he was not quite sure that irrigation would pay as well upon cold clays as upon friable porous soil. But he had seen a wonderful change produced even upon cold clays by irrigation.

Mr. Pugh's agent remarked that his experience in the way of irrigation had not been very great, but that so far he was satisfied. He turned the water on this year in a field on the hill-side in March, and did not let it remain on too long, but irrigated at intervals. The crop of hay produced was a good one. If irrigation were properly managed, it was calculated to improve the land considerably. He quite agreed with the censure passed by many previous speakers upon the custom of

allowing the liquid manure from the farmyard to run to waste in ditches, when it might be turned to great advantage. In his own yard, not having a pond, he had a tank to catch the liquid manure. He often mixed it with ashes and earth of different kinds, and scattered it over the fields early in spring. That was a good plan to pursue when an early bite of grass was wanted for the cattle before they were turned out. Of course, it was the high land which required irrigation; on the low lands the irrigation was natural.

Mr. THOMAS (Tyllwyd), who had tried to irrigate last winter, said he found a difficulty in the unevenness of the surface of the soil. This had rendered irrigation in his case impossible.

The CHAIRMAN.—Not impossible.

Mr. THOMAS.—It was so in my case. The water would stop in one place, and do more harm than good.

The CHAIRMAN.—There should always be a little fall to help irrigation.

Mr. THOMAS.—Then my case was the exception, for there was no fall at all. Irrigation, however, was an important question, and next winter he meant to go into it extensively. There was a hill on his farm, and from that he meant to drive the water down and do as well as he could. From last winter's experience he was led to believe that it would pay him for all the trouble. The cattle would eat the grass grown from the farmyard manure kindly, and it was the most economical manure a farmer could use.

Mr. DAVIES (Llwynddu), and Mr. PROSSER (Tygwyn) also advocated irrigation, the latter asserting that every farmer who irrigated his land was enabled to grow two blades of grass where only one grew before.

Mr. PHILIPS (Bolaulh) said Dr. Hopkins' address left the meeting in the dark as to the best mode of irrigation. Most of the preceding speakers had confined themselves to irrigation by the sewage near the farm-house, as though it was not possible to irrigate land in any other way. Undoubtedly wherever there was a deposit of liquid manure farmers ought to avail themselves of it for the purposes of irrigation, though at the same time where they had got a little stream in any one part of their farms they ought to convey that also to the portions of their land lying below at a sufficient depression to enable the water to flow over them. If that were done it would be found that irrigation could be carried out in many places where it was hardly thought of before. A portion of his own land was irrigated entirely by the drainage from different fields. In this way a field lying low might be irrigated by the drainage of one of higher situation. The water so obtained might not be absolutely pure, yet it would be charged with chemical properties that would tend to fertilize the land. But care ought to be taken not to irrigate land that was too wet. It was a common practice to irrigate wet land, but the result was mischievous, for it encouraged the growth of rank grass, such grass as cattle did not care much about. Therefore irrigation should be confined to the driest land. By that means the growth of luxuriant grasses would be increased, whereas irrigation on wet land would kill the best grasses. There was another thing that should be remembered, viz., that irrigation ought to be avoided during the prevalence of frost. Many persons were in the habit of letting the water run over their land during cold weather, and then when the frost came their fields presented the appearance of a mass of ice. When that was done grasses were destroyed.

Mr. D. PROSSER.—The ice is a protection.

Mr. PHILIPS disagreed with Mr. Prosser on that point, for he had proved the contrary. The simple effect was that the grasses were converted into decayed vegetable matter. Respecting the use of sewage, he did not know that it was in his power to throw any light upon it. It was an excellent thing. In England where there were so many hill streams and flat meadows, two or three crops were obtained by the use of sewage. Some farmers were in the habit of irrigating their cultivated grasses and not their meadows, and so got two or three crops. It was the duty of every farmer to avail himself of all his opportunities for irrigation. But it was not everybody who has got the beautiful low meadows to be seen in England, where from £10 to £12 per acre was made. That could not be obtained in South Wales. But farmers must employ all their powers, and by the help of irrigation he hoped and believed they would be able to increase the annual yield of their holdings.

Dr. NORTON said the question ought to be divided into two parts—liquid manuring and irrigation. During some of the speeches the two things had been confounded. Now, if they looked at the hill sides and noticed the results where water had run over the land, they must be convinced that water was an enormous fertiliser. But then came the question—how does it fertilise the land? It might do so for good or for evil, and water would fertilise for evil when it ran quickly over land having an impervious subsoil. In every other respect it would fertilise for good. Consequently the question was, shall land after it has been drained be irrigated? To that he would answer yes. But then cropped up the further question mooted by Mr. Gwynne. Like Mr. Gwynne, he had irrigated a five-acre field near his house with liquid manure, and found that it had been done too soon; and further that the drains had not been constructed for the purpose of irrigation. Great injury often ensued to drains through moles getting into them, and it was difficult to get rid of them. A great deal could be said about irrigation that ought to be tabulated for the guidance of farmers. One of his own fields had been irrigated with great profit by turning into it the drainage from a plantation which was mixed up with the soaking of leaves and decayed vegetable matter. And he believed that even wet land might be irrigated to advantage, provided care were taken to see that the outfall was good. When the season is cold, if the water was turned upon the land it should at least be allowed a fortnight to dry. But on thoroughly drained land, on gravelly soils, the intervals of irrigation might be more frequent if the bottom of the land was impervious to water. It was almost an axiom that whatever water was turned upon land it ought to have an easy mode of getting away. That involved the whole question of irrigation.

The CHAIRMAN complimented Dr. Hopkins on his paper, and also many of the speakers on the practical nature of their remarks. In one respect Dr. Hopkins had given them a difficult subject to deal with, for he had advised them to control the elements. That was rather more than they could hope to do, but they might try to make use of the elements as much as possible. Something has been said about the time for irrigation. It was his belief that they might irrigate at any time. Now, he did not like to contradict any speaker, particularly a gentleman of such experience as Mr. Philipps, of Bolahaul; and yet he could not help flatly contradicting him—(laughter and hear, hear from Mr. Philipps)—of course he did not do so rudely, where Mr. Philipps said he did not approve of irrigation in winter. With great submission he thought Mr. Philipps was wrong, because it was known that ice in winter was warmer than the air to the land. The proof of that was seen in the fact that when the ice dissolved the grass would appear green from growth; whereas it was perfectly brown where there was no ice. It was generally admitted that ice in the winter protected the land instead of injuring it.

Mr. D. PROSSER: Snow would be better.

Dr. NORTON: You mean a hard mass of snow.

Mr. PROSSER: Yes.

The CHAIRMAN continued by saying that in irrigating it would not do to depend upon every kind of water, for some kinds were injurious. And yet as a rule almost any kind of water might be applied with advantage. Where homestead were so situated, that it would not be possible to irrigate without machinery, he would advise the use of machinery such as an hydraulic ram, &c. Some very practical remarks had fallen from Mr. Davies, of Cincoed. But in one instance

Mr. Davies was wrong in principle, viz., when he advised farmers to convey their liquid manures into a pond where there was a spring. By so doing the reverse would take place of what ought to be done. The purity of the water ought not to be disturbed by the manures, but these should be collected into a tank; and afterwards the necessary quantity of water could be thrown into the tank and afterwards carried over the land. The mistake committed in this part of the county was that liquid manure of too strong a nature was applied to the land. The results would be more satisfactory if the manure were diluted; and in fact it could scarcely be diluted too much. Mr. Gwyn had given them rather a poser about the irrigating water getting in the sub-drainage. A little care, however, in puddling the ground near the drains would prevent all that; or the use of socket pipes for a short distance would have the same effect. It was quite appalling to consider the loss suffered by the country through the running to waste of liquid manures. If the financial amount of the loss were known it would almost make one's hair stand on end. Therefore he urged farmers to incur a little expense where necessary, in order that those manures might be collected and made to irrigate their holdings. As Mr. Lewis, late of Llwynfedwen, had said, some farm-houses were so situated that it was impossible to irrigate from the yards. Llwynfedwen was an instance; but he was surprised that Mr. Lewis never made a tank there, and used a cart to carry those manures away. It would have paid him well to do so, instead of allowing those manures to run into the River Towy. No doubt there was a great deal of ignorance prevailing on the important question of irrigation; but if farmers were to make up their minds to apply a considerable amount of capital for the purpose of irrigating, they would do so with great advantage. He was glad to hear from one of the speakers that he had been trying the system of tanks; and if others would do the same thing, they would find by judicious management it would pay them well.

Dr. HOPKINS, in reply, said that Mr. Gwyn was in error in supposing that the sediment of the sewerage in his farmyard pond had found its way into his drains. There was no better filterer and separator than the soil; and it was impossible for mud to pass through several feet of soil and settle into the bottom of a drain. Some of the speakers had also fallen into the mistake of supposing that he advocated irrigation by means of sewerage alone. His allusion to sewerage was merely casual, and only for the purpose of pointing out the advantage derived from mixing sewerage with water. The subject of sewerage would be an admirable one for a future paper. Also he agreed with the Chairman in advocating irrigation in the winter months, for the ice being a non-conductor of heat preserved the natural warmth of the vegetation beneath it.

Mr. PHILIPPS, of Bolahaul, desired to make a little explanation, and said: One word with regard to this treble attack on me about the effects of ice. What I mean to assert is this—that it is not advisable to irrigate in frosty weather because the water that runs over the grass gets frozen, and it freezes the ice into the grass, and then the grass is broken up and dies away. I do not think that grass requires any protection from the weather, because it is not like something which dies in winter. If you allow the water to stagnate upon the grass, and afterwards the ice covers it, then I say it does more harm than good. And I will back my opinion against the opposite now.

The proceedings then terminated.

THE PARSONAGE FARM.

In one of the fertile and well-cultivated counties of England, and at the foot of its cliffs, the pretty and picturesque little village of F— presents itself to the traveller who may accidentally take the old Roman road from London to York. The said little village of F— contains the usual number and variety of these substantial ornaments which nature and art have joined each other in constructing in many of our English villages, amongst which stand boldly forth the lofty-spired

church, the Squire's mansion and the parsonage house; and it is of the last two occupants of the latter building that I am about to write.

About a mile from the village, and just near enough the high road to arrest even the careless eye of the traveller, stands the house and homestead of that rural institution so useful to parsons and poor congregations—the Parsonage Farm; and the careless eye aforesaid cannot help being struck

with the peculiarly attractive character of the modest and unassuming building that stands before him. I cannot and shall not attempt to describe in what this forcible address to the admiration consists, and will be by content with informing my readers that I believe it is simply in the fact that the little structure seems to have been set up by its owner as if he didn't mind whether the traveller aforesaid admired it or not, and the result is that the modest little structure enjoys the triumph which hardly ever fails to be the lot of a modest little lady, when side by side with one more showy and more beautiful, but who dulls and deadens the eye of the beholder by the laboured attempt that has evidently been at work to make him aware of it. In plain language—it is an elegant little farmhouse, and it tells the observer so at one glance; and all its surroundings tell him—or at least told him at the time I write about it—that there was a farmer in it. Attached to this homestead was about 350 acres of land, a large portion of which was of that class greatly shunned by farmers of the present day for tillage purposes, viz., strong clay. Its then occupant, however, had been trained in the old school of agricultural instruction, for he was the son of a man who sent all his sons to the plough-tail as soon as they finished their scholastic education, which fifty years ago was a little too brief; he had, moreover, been born and trained on a clay soil, and understood thoroughly how to work it, and with an industrious hand and skilful brain he farmed the glebe farm to perfection. The lime-burner hardly ever had him off his books; the bone-merchant, in the early days of bone-measures, quoted him as an authority as to the value of his goods; and the seed crusher showed his account to others in evidence of the acknowledged value of oilcake as an improver of the soil. The good clergyman who enjoyed the living of F—, and was his landlord, saw all this with pleasure and delight. He was a man of God, and loved to see the laws of God assisted in making the earth bring forth her increase so humbly and cheerfully as was done by his tenant, and there was no mixture of selfishness in his pleasure, for he was a man of conscience, and to have taken any advantage of his tenant's abilities and labours by either raising his rent or removing him, he would have deemed an act of the greatest dishonesty; his was a pure and sincere pleasure, he was proud of his tenant. His visits to the farm were frequent, and were of that friendly character which casts a halo around the family circle; he did not call merely to collect a subscription for the Chippawa missionaries, or to ask the girls if they knew their catechism; but he called as a neighbour and a friend, and to give pleasure to the intercourse by showing that the intercourse was a pleasure to him. The children did not call him the vicar, or the clergyman, they called Mr. —. He discussed the philosophy of labour with his friend in that practical manner which they could both enjoy. He praised the quality of the butter and poultry of F— as if he knew that the small delicate hands which peered through the frills of the muslin dress of the charming little lady before him had something to do with that culinary fact, and he played and romped with the children in the garden during the day, and sat chatting with them in the evenings upon the little pleasures of life, as if—as if, well, as if he wasn't a clergyman at all. That was just the great secret of the charm, just the great secret of his power over their hearts, and, like the charm which hung around the little dwelling, all the more powerful because it made apparently no effort to be so; he was always cheerful with them, always at home with them. Such an address to the heart is irresistible. A religion that can make a man so happy should be the religion of every home; so they all thought at the Parsonage Farm. But, "whom the gods love die young." The family at the farm were one morning suddenly shocked by the information that their reverend and dear friend was taken ill; and in less than one little week after that information brought gloom to the little circle, the mournful notes of the passing bell told them that he was dead. Grief—deep, heartfelt, unselfish grief, was the only feeling which took possession of that house, when first the death sound told them its sorrowful tale. Grief—deep, heartfelt, unselfish grief, for a time kept possession of every closet in the frail establishment, unfeigned sorrow for the loss of one whose friendship and kindness had been a part of their social happiness so long; but there soon came another feeling upon the head of the house, who had such a family of children to provide for, and for the first time in his life the thought struck him that he had been putting thousands upon thousands of pounds

into this clay farm, to make it what he had made it, for which the laws of the country gave him no security, and that the agricultural structure, which for seventeen or eighteen years he had been building, was to him a "baseless fabric," and by a title which he could not dispute, the property of another. The will of the coming vicar might have been father to the thought of his tenant, for the funeral baked meats were barely consumed when a letter came to the farm informing its occupant that the Rev. Mr. — would enter upon his Christian duties on the — of —, and that he should bring a tenant for the Parsonage Farm with him. The claims of the occupant were truthfully set forth to the new vicar; he was shown all that had been done to it, all that had been spent on it. Surely the tenant should be allowed either to keep the farm or be allowed something for his improvements. In a manner which could not be disputed it was proved that the farm had had £3,000 spent upon it by the tenant, that it was all there, none of it taken out, and that it was in fact £200 a year better than when he entered. All the better were the secret and selfish exultations of the reverend respondent. "The Lord had need of it" and as to paying for improvements, he was sorry, very sorry, but—the claim, yes, the claim, had—had—h a d—no foundation in law! "Thou shalt not covet thy neighbour's house; thou shalt not covet thy neighbour's wife, nor his servant, nor his maid, nor his ox, nor his ass, nor anything that is his." In an audible and clerical voice the new vicar read out that supplementary covenant to the original conveyance made by his Divine landlord to the first tenant, on the following Sunday, to the congregation of F—. Congregation of F— looked at him and thought of the "Parsonage Farm." But the new vicar did nothing but what was approved by the English laws. The law of England confiscated the property of the tenant, and not the vicar. The right of him who laboured for it, and of him who wanted it, was taken from him and given to him who neither laboured for it nor wanted it, all for the lack of a Land Act, which has since been demanded and obtained for Ireland. The blow was a severe one to the victim. He bore it like a man, "but he must also feel it like a man." He made no sign to the outer world, but he felt all the keener the bitings of the canker-worm that had been planted in his heart by the law's injustice; and at the solicitations of his friends and his medical adviser he lived in comparative retirement for a few years, when his spirits appeared to be restored, and he took another farm. I visited him again in his new home. It was much larger, much more showy, as a residence, than the one at F—, but it seemed to want its fascinations. Its interior presented all the cleanly and winning attractions of the old one. It could not be otherwise under that little lady-like artist who presided over it, for she had been thoroughly educated by her governess to the social wants of the room, and by her mother to the substantial ones of the table. But with all this it did not seem so cosy and loveable as the old home at F—. We sat and stood farther off each other than we used to do there. We smoked (the governor and I) and puffed questions at each other across the hearth as usual from our pipes, but we looked at the cloud for an answer instead of looking at each other. We went round the farm of a morning, as we used to do, and I saw that the old game of high farming was still the pride of his heart, but we both seemed to labour under a painful reluctance to talk about it, and it seems to me now as if that reluctance was the secret foreboding of a second misfortune looming in the distance, for in three years after that visit, and about five after the farm was taken, it was sold by auction, and he was removed again under a six months' notice. The tenant's improvements were sold with the farm as a matter of course, but, as a matter of law, the tenant touched no part of the money paid for them. I never saw my friend or any of his family after that second disturbance. He took another farm a few miles distant from it, but I never went to see him on it, and about three years ago I read in the local paper that *he had hanged himself*.—*Tales of my Tenants* (Whittaker and Co.).

THE VETERINARY ART AS APPLIED TO AGRICULTURAL SOCIETIES.

At a general meeting of the Essex Agricultural Society held at Chelmsford, Mr. J. R. Vaizey, president, in the chair,

The SECRETARY read the minutes of the last meeting, which contained two to the following effect: That Mr. Basil Sparrow having protested against the decision of the judges in classes 19, 20, and 21, those prizes having been awarded to Fandanguero, the thoroughbred stallion of the Rev. R. Westhorp, of Berner's Hall, Ongar, subject to the veterinary certificate of soundness: the veterinary inspector employed by the Society at the Halsted meeting, Professor Browne had certified the horse sound, and the decision of the judges was therefore confirmed. That in class 24, for weight-carrying hunters, a prize of £10 having been awarded to Beckford, the property of Major Barlow, of Haske-ton, Woodbridge, subject to the certificate of the inspector, and Professor Browne's examination being unsatisfactory, the award had been made to the reserved number, Mr. Barker, of Ingatstone. Touching these matters the secretary read a very voluminous correspondence. First of all Mr. Westhorp forwarded a certificate from Mr. Edward S. Shave, veterinary surgeon, Chelmsford, testifying that he had examined Fandanguero on June 8th, and pronounced him sound. Mr. Basil Sparrow wrote: "I have not altered my opinion with regard to the horse Fandanguero, and I still protest against the award. I was informed by a veterinary surgeon that he is a bad roarer, and that he suffered so much from laminitis that he was unable to stand for three weeks. My informant offered to bet me £10 that he is right. I shall keep my opinion of Professor Browne to myself." [Mr. Wood: That is a wise decision on his part.] A long letter from Major Barlow, under date June 14th, began by inquiring on what ground Beckford was disqualified. If, as his groom supposed, it was from some fancied defect in its wind, he had to say that it was passed sound only a fortnight before by Mr. S. W. Leggett, a member of the Royal Veterinary College, of Wickham Market. The horse was perfectly sound that morning, having been severely galloped in the presence of Mr. Phillips, the eminent London dealer and army horse contractor. The horse had been fed up for show, had been standing still for a week at the London exhibition, and had a slight cold upon him, quite sufficient to account for any slight "blowing" he might make in the show-yard at Halsted. He (the writer) claimed the right of forwarding a first-class certificate as to soundness and of a right to the award. This was a serious and damaging matter, in the case of a prize horse like Beckford, which he must clear up at whatever cost, as his character was at stake. Major Barlow inclosed the certificate of Mr. F. Mavor, M.R.C.V.S., Grosvenor-square, London, who certified Beckford to be sound, and went on to say that he had to protest against Fandanguero, as it was a well-known fact that he was a bad roarer. He complained that this horse was not examined at Halsted, though his horse had been.

Mr. BELCHER said this was an incorrect statement on the part of Major Barlow, as he (Mr. Belcher) was one of the stewards, and saw Fandanguero examined.

On the 17th Major Barlow again wrote saying he had seen Mr. Westhorp and challenged him to give a certificate of soundness in the case of Fandanguero, as he himself would do in the case of Beckford. He further stated that his horse had won a prize at the Suffolk show, where it had to pass both Mr. Varnell and Mr. Hunt, both of whose certificates he could get if needed. After further correspondence Mr. Emson wrote the following letter to Mr. Browne, the inspector, which the committee said was a capital letter, and if Mr. Browne had only replied to it in the same clear manner, his communication would have been of service:

Halsted, July 15, 1872.

Before the Halsted prizes are paid I take the opportunity of stating one or two facts; also of asking for some particulars respecting the two horses that were brought before your notice at the Halsted show. I refer to the thoroughbred prize stallion and the disqualified hunter. The

owner of the latter protests against the disqualification, and asserts that he has since sent the animal to London for examination; that he was pronounced by a high veterinary authority to be sound; that he has moreover since taken the prize at the Bury show, and was passed by the veterinary inspectors in the ring—viz., by Messrs. Hunt and Varnell. With regard to the thoroughbred stallion, persons believing him to be a confirmed "roarer" press me with the inquiry as to what tests he was put to, and if they were fair and satisfactory, such as are employed in all cases of doubt. The days of the show were so dreadfully wet that many persons interested in the meeting had not the opportunity of seeing the horses in the ring. Therefore, if not incompatible with the discharge of your functions as our appointed veterinary inspector, may I ask you kindly to favour me with some particulars respecting the above animals, and the grounds upon which you based your opinions in each case.

Mr. Browne replied as follows:

I am very desirous of giving you any information which you may wish for, but I fear I cannot consistently reopen questions which were decided by the judges at the Halsted meeting. In the cases to which you refer I gave an opinion, at the request of the judges, and after considering all the circumstances they arrived at conclusions which, as far as I can see, cannot be affected by opinions, professional or otherwise, subsequently expressed. I may venture to suggest that difference of opinion is not uncommon among professional men, and if the owner of an animal has a right to protest against the decision of the judges on the ground of an adverse veterinary opinion, or indeed on any other ground, it will be difficult to limit the discussions which will arise.—P.S. Mr. Hunt, who is acting here (the Royal show at Cardiff) with me, states that the hunter was not examined by Mr. Varnell or himself at Bury St. Edmund's.

Mr. PIGOTT said Mr. Browne had evaded Mr. Emson's question entirely.

Mr. PARKER thought he had given sufficient answer. The decision of the judges was given in connexion with his opinion upon the examination of the horses in question.

Mr. BADHAM: There is no doubt Beckford was suffering from a cold at the time of the show, but I am convinced he is perfectly sound, and you have the certificate of one of the best men in England to that effect.

The CHAIRMAN could not see how they could reopen the question.

Mr. PIGOTT: Surely a veterinary surgeon can say whether Fandanguero is a roarer or not.

Mr. PARKER: Not always.

Mr. PIGOTT: But surely there are some particular symptoms which can be spoken to—the grunt, for instance, which never comes from a cold?

Mr. CATCHPOOL: He might be a "blower," and not a "roarer."

Mr. PIGOTT: Can't we ask Professor Browne to re-examine both these horses?

Mr. PARKER: No; I protest against the matter being re-opened.

Mr. CATCHPOOL: We have positive evidence that the thoroughbred is sound, and we have only hearsay evidence that he is not; that is a wide distinction.

Mr. WOOD: It is a painful matter which I hope will never arise again.

Mr. CATCHPOOL: It is a painful exposure of the veterinary art.

It was then resolved, on the proposition of Mr. PARKER, seconded by Mr. BELCHER: "That the question of the awards in the cases of Fandanguero and Beckford, decided upon at the Halsted Show, after the careful examination by the Society's veterinary inspector, cannot be re-opened."

The committee then considered the question of the award for the yearling bull King John, exhibited by Mr. Thomas Cousins, Cressing, and bred by Mr. Huckle, Whittham. The award had been objected to on the ground of the pedigree not having been proved. Mr. Huckle forwarded a statement

from Mr. Upson in support of his claim to the award but Mr. PIGOTT said it was no proof of the continuous line of pedigree required, and they ought to call upon the exhibitor to produce his herd book. It was explained that he was only a small farmer, and would not keep a herd book.

Mr. CATCHPOOL: The rule says he must be eligible for entrance into the herd book; but it does not say that he must actually be entered there.

Mr. PIGOTT: Well, then, if you permit Mr. Huckle and Mr. Upson to concoct pedigrees of this sort, you may say good-bye to your pure Shorthorns. Ultimately it was proposed by Mr. PIGOTT, seconded by Mr. WOOD, and carried.

"That Mr. Huckle be requested to produce a book or record showing the birth of the animals referred to in his pedigree."

A letter was read from the secretary of the Norfolk Society, stating that at their recent meeting, the Prince of Wales, who presided, threw out a suggestion for an Eastern Counties Association. The writer said, "I am directed to inform you that the subject has been considered by our committee, and so far as they have at present considered it they are opposed to an amalgamation of the several county associations; but they desire me to ascertain the views of the several committees of the Suffolk, Essex, Cambridgeshire, and Lincolnshire societies as to whether or not they are favourable to the formation of an Eastern Counties Association, each county association being continued, and the annual shows to take place in the several counties, except that in which the show of the proposed Eastern Counties Association is held." This latter part of the letter had to be read twice before the meaning could be properly understood.

Mr. PARKER, in plainer terms, illustrated the position thus: It is proposed that there should be, besides the several county societies, an Eastern Counties Amalgamated Association, and if the Amalgamated Society held its meeting in Essex in any particular year, the Essex Society would not hold its own county meeting separately during that year, but would merge it in the amalgamated show, and so in the case of other societies when the united show was held in their respective counties.

Mr. BADHAM did not approve the suggestion. Notwithstanding that the Bath and West of England Society comprised so many counties the societies of the Eastern counties had better shows of cattle at their respective meetings than the Bath and West of England had at its exhibitions of all its united counties. As the letter from Norfolk had only just been received, it was resolved to acknowledge the receipt of it, and discuss the question at the next meeting.

Nearly all the judges and several other persons wrote strong complaints about the shocking mismanagement of the railway service on the occasion of the show, hundreds of persons being kept waiting so long at Chappel that those who had to go through London missed their trains, and had to pay hotel expenses in the city. Major Barlow, of Hasketon, also wrote that his stallions were boxed up at 6.30 a.m., and did not leave Halsted till 1.30 p.m., being kept all that time shunting about, and did not reach home till eight o'clock in the evening. His groom who had Beckford in charge was so disgusted that he would not wait, but rode the horse all the 42 miles home by road. The writer thought some complaint ought really to be made to the railway authorities.

THE LAMB DISEASE.

At a meeting of the Cornwall Chamber of Agriculture, held at St. Austell, Dr. Crisp, of Chelsea, delivered a lecture on the lamb disease. Mr. Jonathan Rashleigh, of Menabilly, in the chair.

Dr. CRISP said his attention was first directed to the so-called lamb disease twenty years ago. His late brother, in Suffolk, had lost a great number of lambs from a disease that had not before been seen in that neighbourhood, and the symptoms were emaciation, great debility, cough, scour, and excessive thirst, many of the animals dying whilst in the act of drinking. A dead lamb was sent to him, and he discovered that the windpipe and bronchial tubes contained large quantities of white thread-like worms. The others were examined, and all evidently died from the same cause. He had since had many opportunities of investigating the nature of the disease, and ten years ago he obtained a prize of £30, which a Committee of Cornish agriculturists offered through the medium of the Bath and West of England Society for the best essay upon the disease. He had greatly added since to his stock of information, and he desired to pay a well-merited complement to the gentlemen of Cornwall who commenced this inquiry—so far as he knew, the first of the kind in relation to sheep or cattle disease in England. During the last forty years rapid strides had been made in Cornwall in the management of stock of all kinds. The size of the holdings had some effect on the lamb disease, as small holders could take more care of their lambs. According to the last return which he saw, there were 82,220 occupiers in Cornwall, 4,608 of whom employed labourers, and 3,612 cultivated their own land. The small holder, however, had not the same opportunity of changing the pasture as the larger holder had. Small holders, by being able to look more after their lambs, observed their habits more closely, and could generally give the best information concerning their diseases. Since 1866 stock had increased in Cornwall from 30,000 to 48,769, the number to the hundred acres being sixty. This is a high average. In Devonshire it was 34, in Somersetshire 46, but in Rutland it

was 79; in Kent and Berkshire it was 72. If the Government had done its duty, a commission would have been appointed long since to investigate this formidable disease, and the money would not be ill-spent if a few hundreds were devoted to the investigation of such an all-important question. The lecturer then explained, by means of diagrams, the various metamorphoses through which parasites passed; he also produced a large number which he had from time to time taken from different animals, and expressed as his opinion that they were taken in by lambs whilst pasturing. The question might be asked how were they to get rid of the enormous mortality which arose from this disease? He had recently communicated with a vast number of sheep growers in England, Ireland, and Scotland, being anxious to ascertain whether during the last ten years, within which time he had carefully considered the subject, any light had been thrown upon it, and he had in his possession a vast amount of correspondence in answer to his communications. There was one thing which amused him very much, and it was really a matter of great practical importance as regarded the cure of the disease. One gentleman who was a frequent correspondent of his sent him a lamb which he had killed after having administered turpentine to it with a view to destroy worms. It became healthy and fat, and he had it killed, and he and his family partook of a portion of it, but it was so impregnated with turpentine that they were unable to eat it. Now, this was important, because it showed that no medicine which they gave by mouth would reach the worms directly, though indirectly if the system was impregnated with this vapour it might render the *habitat* of those worms so unpleasant that some of them, at any rate, were got rid of. As to the locality, he had found that the counties in which the disease was most rife, and where the worms were most prevalent, were Suffolk, Norfolk, Lincolnshire, Cambridgeshire, Cornwall, Devonshire, and some parts of Somersetshire, but he could not find up to the present time that it prevailed to any extent either in Scotland or Ireland. One gentleman wrote to him from Ireland to say that they did not fold their sheep there, believing that folding had a great deal to do with the propagation of the disease. There were several other gentlemen who, singularly enough, had never seen worm in lamb, but had seen it in calf, and some of them might naturally ask—and it was a fair inference—how it

was that the calves had these worms and that the sheep did not get them, and so far as he could make out the explanation was this, that the lambs and the calves had seldom or ever been on the same ground at the same time. It was true that they were often together on the same ground during the winter months, but that was a matter of no importance, because he believed that the worm was not taken in the winter months, but after weaning; after the lamb had ceased to take its mother's milk, after it had begun to take vegetable food. He believed that no one understood this matter so thoroughly as his friend Mr. Tucker, of Molennick, and he thought the agriculturists of Cornwall had reason to be much indebted to him for the great interest and trouble he had taken to eradicate the disease. Mr. Tucker and he were agreed on a good many points, and they differed more about words than anything else. Mr. Tucker argued that the disease was not infectious or contagious, and in the ordinary sense of the term that might be so, but at the same time it was communicable. It was said some time ago, he believed in Plymouth, that the eggs entered into the animal and circulated through the blood, but that was utterly impossible. As to the question of treatment, farmers generally laboured under the impression that medical treatment was of little or no value, but he believed that it would be to their interest in this disease to call in intelligent and practical veterinary practitioners more frequently than they did at present. It was true that they had not the power, directly, of expelling these parasites from the lungs, but they might, by means of noxious gases, such as chlorine, tarry, and sulphurous vapours render their *habitat* so untenable that a great many of them might be expelled. And it should be remembered especially that the parasites, like many others, were destined to remain in the body for a limited period only. In addition to this there were internal medicines, if carefully given and repeated at certain intervals, which would so affect the blood as to produce the same effect. The "leave-alone do nothing" system he utterly protested against, and he believed, from answers which he had received from numerous correspondents, that much might be done by judicious and active treatment. Drenching the lambs once or twice a-week with linseed oil and spirits of turpentine soon after they were weaned was also a good practice, and he would strongly advise all farmers in districts where the disease prevailed to adopt this practice, more especially as these living worms were not the sole destroyers, for not unfrequently there was another species of strongylus, which at the same time occupied the digestive stomach. He likewise had faith in the use of a little chloride of lime made into a paste, put into a plate, and vitrol poured upon it, in properly regulated quantities, so as to get the chlorine gases, and further believed that a dessert spoonful of salts given twice a week, and dried, chopped wormwood given in the animal's food, would be very beneficial. He protested against the inactive system of leaving things alone to take their chance. If that system was to be adopted, science, indeed, must hold its head, and he should despair of seeing any great improvement in the treatment of the disease. Very much good might be done by feeding and keeping the lambs well, and if they were then diseased, let their locality be changed. These were two most important points, and he also wished to impress upon them that putting lambs where old sheep had been was positively destructive. In conclusion the lecturer said that parasites must be the cause and not the consequence. It was true that when a lamb got into a bad condition the parasites increased more quickly, but that did not alter the fact that they were already there.

Mr. ATKINS, surgeon, believed if lambs were separated and not kept too close it would be found that the disease would not occur. They should also be thoroughly well kept, and where there was any disease or suspicion of disease they should be drenched with turpentine. He believed it was thoroughly practicable to get rid of the disease, and that the noxious gases to which Dr. Crisp had referred would cure it.

Mr. E. TUCKER said he believed that numerous classes of animals were liable to parasitic disease, and that the bodies of such animals were the natural seat for the nurture of the parasite during its transitory state, and might exist in considerable numbers without much derangement of the animal's health; but from circumstances of locality or seasons favourable for their production disease and death were common results of excessive numbers. The bott worm in the stomach of the horse, and the larvæ of the gadfly in the nasal cavities of

the heads of sheep, were unquestionable proofs of this. Their domestic animals, their cattle, their fowls, their sheep, were all liable to certain parasitic diseases before they attained a certain age, but never after. He had never seen chickens die of gapes after the down on their heads had changed to feathers, or cattle die of "hoose," or sheep of parasites, after they were twelve months old. He had found the seat of the disease in all the young animals he had named to be the respiratory organs, yet each animal had its distinct parasite, a distinct seat in those organs, and a marked difference in their effects. Some thirty years ago he was requested by Mr. Pollard, of Quethiock, to treat some calves of his that were diseased of "hoose." The farm, he was told, was a very unhealthy one, and the cattle suffered and many died from the disease every year. He opened the lungs of a dead calf and explained the nature of the disease, and, in answer to his inquiries, he was informed that the cattle were pastured in a field adjacent to the yard, where they were always reared for the convenience of being fed with milk. A small portion of the land was badly drained, and grew a few rushes and some long coarse grass, and he at once said that the disease was generated there. Since that time calves had not been pastured on that piece of land, and the disease had never since made its appearance on the farm. Here was another case. He had two farmyards in which he reared fowls—one at Molennick, the other at Kilquite. Every chick reared at Molennick suffered from gapes, and great numbers died, whilst at Kilquite the disease was never known with chickens that were hatched and reared there; but if hatched and kept a week or ten days at Molennick, and then put to Kilquite, they became diseased and died, just the same as if they had been kept at Molennick. He could give similar illustrations in connection with the lamb disease, and he had no doubt it had its origin in similar local causes, which he hoped science would explain and the disease be prevented; but he also believed that lamb suffered at the same age from parasites of a different class in their stomach and intestines, which added to their mortality.

The CHAIRMAN: Dr. Crisp has said he believes that the animals take up the parasites from the soil, and Mr. Tucker has noticed that in certain fields lambs get the disease, but that when removed from those fields there is no appearance of it. Have any experiments been made to ascertain whether it is caused by certain manures that have been used in those fields?

Dr. CRISP said he believed there was no pasture or soil that specially favoured the production of the parasites, for he had found that they prevailed in strata of various kinds. As to the effect of artificial manures, opinions were wide and diverse. Some thought they were injurious; others that they were not. His own opinion was that it might have something to do with the increase of the parasites, but it was utterly impossible that it could have anything to do with their production. As to the statement of Mr. Tucker that they were only found in young animals, all he had to say was that he seldom examined an old bull or cow without finding some of these strongyli in the lungs. He had also seen many of them in old sheep, and therefore his friend, Mr. Tucker, must be wrong in supposing that they were peculiar to young animals. He quite agreed, however, that it was in young animals they were so fatal.

Mr. TUCKER said he believed in feeding lambs on artificial food as much as possible, and keeping them off pasture lands. They would then hear very little of the lamb disease.

Dr. CRISP mentioned that, although the disease might not be infectious or contagious, it was communicable by reason of putting lambs into pasture where diseased sheep had already been.

Mr. T. OLVER believed that it was only in previously diseased animals that the worms were fatal, and that healthy ones threw them off. He generally gave his lambs turpentine and salt this time of year, and thereby saved a great many. The disease was twenty years old in the North of Cornwall. He believed there was more to be done by prevention than cure. The disease prevailed more in rich land, where it was necessary to keep a heavy stock. Farmers who stocked lightly scarcely ever suffered from the disease. The stock in Cornwall was enormous.

After a few remarks from Mr. Allanson, the discussion closed, and Dr. Crisp was thanked for his lecture.

THE VETERINARY DEPARTMENT OF THE PRIVY COUNCIL OFFICE.

REPORT FOR 1871.

The powers conferred on the Lords of the Council by the Contagious Diseases (Animals) Act, 1869, have been exercised by their lordships during the year 1871, principally with regard to the improvement of those orders and regulations which relate to the prevention of the introduction of contagious and infectious diseases amongst animals from abroad, to the spread of such diseases in this country, and to the carrying out of those regulations which relate to the transit of animals by sea and land. On the 1st of January, 1871, there were 36 Orders of Council under the Contagious Diseases (Animals) Act, 1869, in operation. A list of these Orders, with their short title, or the subject to which they relate, is given in the Appendix. During the year considerable changes have been made, and 27 new Orders have been issued by their lordships. It is proposed to give in detail the circumstances under which their lordships decided to issue these Orders, except those which are of a local character, and for this purpose the Orders may be divided under three heads:

1. Foreign Orders, or those relating to the importation into this country of foreign animals, &c.
2. General Orders, or those relating to Great Britain generally.
3. Local Orders, or those relating to particular places.

FOREIGN ORDERS.—The first Order of Council issued in 1871, relating to the importation of foreign animals into this country, is that of the 9th of March, 1871 (No. 321), and relates to France and Belgium. The regulations of the fourth schedule to the Act of 1869 were applied to cattle brought from Belgium, by The Contagious Diseases (Animals) Order of August, 1869 (No. 258), and the same regulations had been applied to cattle brought from France, by an Order of the 9th of September, 1870 (No. 304), and by an Order of the 20th of September, 1870 (No. 305), these regulations had also been made to apply to sheep and goats brought from France. In consequence of the continued prevalence of cattle plague in both these countries, their lordships considered it necessary altogether to prohibit the landing in this country of cattle brought from either of them, and of cattle, sheep, or goats having been on board any vessel with such cattle. This prohibition is contained in the Order of the 9th of March, 1871, which also prohibits the landing of fresh meat and hides, fat, hoofs, horns, manure, and hay from those countries. This Order and those above referred to have been revoked, but similar regulations are continued by the Order of the 8th of December, 1871 (No. 340). The next Order which bears upon foreign importation is that of the 31st of March, 1871 (No. 322), the effect of which is to transfer the inspectors at the ports and the responsibility of the inspection of foreign animals, &c., from the Customs to the Veterinary Department. This was the first step towards a reorganization of the inspection, and will be again referred to. The Order of the 20th of April, 1871 (No. 325), which comes next under this head, removes cattle brought from the Netherlands, and sheep and goats brought from Germany, from the operation of the regulations of the fourth schedule to the Act. Both these provisions are relaxations. As regards the Netherlands, it appeared that no case of cattle plague had occurred in that country for more than three years that the contagious or infectious diseases which then existed in the Netherlands also existed in this country, and, that a decree of the Dutch Government had come into operation on the 1st of January 1871, prohibiting the importation and transit from foreign countries of cattle, sheep, goats, fresh hides, fresh and salted meat, unmelted fat, manure, and other matters likely to introduce contagious or infectious diseases among animals. A communication was also received by this Department from the Consul-general, to the effect that the Minister of the Interior of the Netherlands would give due notice of any change being made in the decree above referred to. Under these circumstances their lordships decided that the regulations of the fourth schedule to the Act should no longer apply to cattle coming from the Netherlands. Sheep and goats brought from Germany were relieved from

the restrictions contained in the fourth schedule to the Act, and from the further restrictions within the Port of London contained in the Order of the 20th September, 1870 (No. 305), in consequence of the total cessation of cattle plague in that country. The Order of the 10th of June, 1871 (No. 327), allows cattle, and cattle, sheep, and goats brought with them, and also certain other articles, brought from Belgium, to be landed in this country, by revoking the prohibition against their landing contained in the Order of the 9th of March, 1871 (No. 321). The same Order also relieves sheep and goats brought from Belgium from the regulations of the fourth schedule to the Act, and from the further restrictions in the Port of London contained in the Order of the 28th of November, 1870 (No. 319). This Order was issued in consequence of the total cessation of cattle plague in Belgium. On the 24th of June, 1871, the second step was taken with regard to the reorganization of the departmental inspection under the Act, by limiting the number of ports at which foreign cattle may be landed, This is limited to 30 by the Order of the above-mentioned date (No. 323), but the number has since been increased to 31 by the Order of the 8th of September, 1871 (No. 333). The Order of the 23rd day of December, 1871 (No. 339), revokes part of two Orders relating to France, which were at that time in force, the provisions of which are however continued with a slight modification in the Order of the same date (No. 340), which prohibits the landing of cattle brought from Belgium or France, and of cattle, sheep, or goats which have been on board a vessel at the same time as such cattle. It also prohibits the landing of manure or hay brought from Belgium or France, and places sheep and goats brought from those countries under the regulations of the fourth schedule to the Act. There is a provision which allows such sheep landed at Leith or Granton to be moved under certain conditions to the Edinburgh Slaughter House. All such sheep are to be slaughtered within 10 days. This Order also provides for the inspection of meat, fat, hoofs, and horns coming from Belgium or France by not allowing them to be landed at any port other than those at which foreign cattle may be landed, nor to be removed therefrom without a certificate that they are not likely to introduce contagious or infectious disease. The Foreign Animals Order of 1871 (No. 342) was passed on the 20th of December, for the purpose of renewing in a consolidated and slightly modified form all those provisions of former Orders which relate specially to foreign animals. The principal provisions of this Order are the following:

1. *Foreign cattle generally, and cattle from unscheduled countries.*—Foreign cattle can only be landed at certain ports (31 in number)*. They must be detained and inspected on landing. If any one of a cargo is found affected with any contagious or infectious disease, such animal or the whole cargo may be detained and slaughtered, or otherwise dealt with, as the Privy Council direct. Healthy foreign cattle, if landed at places other than those defined for the landing of cattle from scheduled countries, cease to be deemed foreign cattle after complying with certain conditions.

2. *Cattle from scheduled countries.*—Cattle brought from Russia, Germany, the Austro-Hungarian Empire, Turkey, Italy, and Greece, can only be landed at the following ports (21 in number): Bristol, London, Dover, Hartlepool, Hull, Newcastle-upon-Tyne, Plymouth, North Shields, Shoreham, Southampton, Granton, Leith, Glasgow, Middlesbrough, Portsmouth, Grimsby, Dartmouth, Littlehampton, Sunderland, Goole, Liverpool. These cattle must be landed at the parts of these ports defined by the Privy Council as landing-places for slaughter, and are subject to the regulations contained in the fourth schedule to the Act. All such cattle must be

* The names of these Ports will be found in the first schedule to the Order.

slaughtered within ten days after being landed, exclusive of the day of landing. All such cattle must be slaughtered at such landing-places, except for the supply of London and Edinburgh, and at ports where quarantine or re-shipment to another landing place is allowed.

GENERAL ORDERS.—The first Order issued in 1871, of this character, is that of the 16th of February relating to pleuro-pneumonia, which was passed in consequence of the representations made by several of the local authorities. Thirty local authorities have applied for authority to slaughter cattle affected with pleuro-pneumonia since the passing of this Order, and several asked for power to prohibit the holding of fairs and markets; but only one has received such authority. This Order was revoked by an Order of the 20th of December, 1871 (No. 343), but its provisions are continued, in a slightly modified form, in The Animals Order of 1871 (No. 341). The Order of the 31st of March, 1871 (No. 323), revoked The Transit of Animals (Water) Order of May, 1870 (No. 301), which provided for a supply of water at certain railway stations in Great Britain. This provision is, however, continued by an Order (No. 324) of the same date, which directs such water supply to be provided at additional stations, together numbering 547. The Order of the 5th August, 1871, relating to sheep-scab, was, like that relating to pleuro-pneumonia, suggested by applications from local authorities. A few local authorities have made regulations under this Order. On the 20th of December, 1871, were passed three general Orders of considerable importance, namely, The Animals Order of 1871 (No. 341), and The Foreign Animals Order of 1871 (No. 342), which contain, with a few exceptions, the whole of the general regulations under the Act now in operation in this country, and an Order (No. 343), revoking nearly all previous Orders having a general application. An entire revision of the Orders was rendered necessary in consequence of the decision of the Lords of the Council to remove the restrictions on the movement of cattle within and out of the Metropolis, on the opening of the Foreign Cattle Market at Deptford. These restrictions had been in operation since the time of the outbreak of cattle plague in this country, and had been found very beneficial in preventing the spread of contagious diseases, amongst animals from the Metropolis to the country districts. By means of these restrictions and the system of passes and licences established with them, this department could, if required, at any time trace the movements of any particular animal, and thus take precautions for checking the spread of any contagious or infectious disease. It was considered that these restrictions would have afforded considerable protection against the spread of cattle plague, should it again be introduced into London from abroad. They were, therefore, continued so long as cattle from the countries to which the regulations of the fourth schedule of the Act applied could be moved within the Metropolis. Such movement was prevented by revoking the Orders which allowed the removal of cattle from the defined parts of the Port of London.

LOCAL ORDERS.—The local orders relate to the definition of the parts of the ports in Great Britain as landing-places for the slaughter of cattle brought from countries mentioned in the second schedule to the Foreign Animals Order of 1871.

SUGGESTED LEGISLATION.—During the year, besides numerous applications from the Chambers of Agriculture requesting that foreign cattle should only be landed for slaughter at the place of landing, several important applications for alteration or removal of existing restrictions have been received by their lordships, but they have not been acceded to, and therefore do not appear in the before-mentioned orders. Among the more important applications may be mentioned those from home and abroad for the modification or removal of the restrictions upon the inland movement of German cattle, and from several counties in Great Britain for increased restrictions to prevent the spread of foot-and-mouth disease.

GERMANY.—The applications from the German Government for the modification or removal of the restrictions on German cattle were urged on the plea that the cattle importation from Germany is still, in comparison with that of other countries, subject to an exceptional treatment, notwithstanding that the prohibition against the importation of Steppe or large grey cattle into Germany now applies to the transmission of the cattle through that country, and propose the removal altogether of the special restrictions. From the representations made by the German Government, it appeared to

their lordships that any cattle, other than those of the Steppe or large grey cattle breed, can be imported into Germany, and Germany was practically placed in the same position as those countries from which it could import cattle; namely, Russia, the Austro-Hungarian Empire, Turkey, Italy, Belgium, and Greece, in all of which, except Greece, cattle plague has existed during the present year. Similar restrictions were therefore placed upon its trade. These restrictions applied also to the Netherlands up to the 28th of April, 1871, and were only then removed because that country had been for some years free from cattle plague, and its Government had absolutely prohibited the importation into it of any cattle from any other country. That the prohibition of the importation into Germany of Steppe or large grey cattle only is no security against the introduction of cattle plague into that country, and that the regulations there are not sufficient to prevent its spread, are proved by the facts that the outbreak of cattle plague in East Prussia, which occurred in 1869, was due to *Polish* cattle, and that the disease had spread to places far distant from each other before the Government was even aware of its existence. When this outbreak of disease became known to the German Government, the traffic in cattle was interdicted; but not soon enough to prevent the transmission of cattle to this country, after the disease broke out. Thus a number of cattle from the district where cattle plague existed were actually imported into this country, but it fortunately happened that they were not infected, or England might again have suffered from rinderpest. Their lordships refused to grant the application, as it would appear that to admit German cattle under the same regulations as those which apply to the Netherlands would practically amount to admitting all European cattle, except the Steppe or large grey cattle, on these terms, and taking into consideration the greater facilities for transit, would place England, as regards our foreign cattle trade, in a worse position than it was in 1865, when cattle plague was introduced here. The application of the consumers of the North of England, representing, according to their statement, a population exceeding three millions, was to the following effect: That German cattle may be forwarded for immediate slaughter to the inland towns of Lancashire, Yorkshire, and Cheshire, from the ports of Hull, Goole, Grimsby, Hartlepool, and Middlesbrough, for the following, among other reasons. 1st. That the slaughter of German cattle at the port of landing is no longer necessary, seeing that the cattle plague is now well understood by our veterinary inspectors, that extreme measures are taken in Germany to at once isolate infected districts, and that the cattle plague is and has been for years unknown at our ports. 2ndly. That it is unjust to the large industrial towns of Lancashire, Yorkshire, and Cheshire, to permit London to enjoy a monopoly of the German cattle trade, and the large supply of animal food arising therefrom; and that such a monopoly acts as a tax upon the food of the people in these districts by unnecessarily enhancing its cost. 3rdly. It is alleged also that the Government, by continuing their restrictions upon German cattle, stand between the people and a fuller and cheaper supply of food, and that Holland gives us little in bulk or quantity compared with that which awaits us in other countries. It was afterwards represented that the proposal contained in the above-mentioned petitions for the removal of German *fat* cattle inland would not be sufficient, but that the restrictions should be altogether removed for the purpose of introducing *store* stock. The objections to the removal of these restrictions altogether have already been shown. Not only would cattle plague be probably introduced, but it is equally probable that, as in the case of the outbreak in East Prussia, the disease would be distributed over a large tract of country before it was recognised or could be stamped out. We should thus probably have a repetition to a limited extent of our losses in 1865-6, and be subject constantly to the danger of a re-introduction of the disease. It appeared to their lordships that the proposed removal inland under the present regulations in Germany would be attended with a similar risk of the introduction of the disease, and risk of its spread. This application was, therefore, refused.

CATTLE SUPPLY AND PRICE OF MEAT.—The two proposals for the relaxation of the restrictions on German cattle have arisen from two sources whose interests are widely opposed to each other—namely: the *producer*, who hopes to get a greater profit by the change, and the *consumer*, who hopes to get his meat supply at a lower

price, but it appears improbable that the hopes of either can be realised if the extra cost of transit inland be added to the cost of production. Both interests might, however, gain if an increased import took place, provided that the larger production could be obtained at a reduced cost. Cattle, however, appear to belong to that class of commodity which, although it can be multiplied to an almost indefinite extent, yet only a limited quantity can be produced at a given cost. If a greater quantity of cattle is wanted it must be produced at a greater cost. The wholesale cattle trade, like all others, obeys the laws of demand and supply, and so long as the price in this country gives as good a profit on the cost of production as elsewhere, the supply will at all times be kept equal to the demand by foreign importation. The demand, however, must steadily increase as population increases, and the quantity of meat consumed among this population must also increase as wages rise; it follows, therefore, that the wholesale price of cattle must be a gradually increasing one. This will be found to be the case if we extend our inquiries over long periods; but the disturbing influences are so numerous, that the rule rarely applies to three years consecutively. The principal disturbing influences affecting the demand for cattle are: *a.* Distress among the working classes, and reduction in wages; *b.* increased import of dead meat—reducing the demand for live cattle. *c.* Local changes of population—reducing or increasing the demand for meat. *d.* Commercial prosperity and increase of wages; *e.* reduced import of dead meat—increasing the demand for live cattle. The disturbing influences affecting the supply are—*f.* Want of food for feeding cattle—increasing supply of inferior meat on account of forced sale. *g.* Want of cattle for feeding—reducing supply of superior meat. Remembering that increased demand or reduced supply is attended with increased price, and reduced demand or increased supply with reduced price, and also, on account of the large proportion of the cost of production which the item of transit forms, that these effects may be produced locally, and that the price of cattle follows the same rule, and has the same disturbing influences in those countries from which we obtain our foreign supply, it is not difficult to understand the causes which have operated to produce the exceptionally high price of beef during the latter part of 1870. The year 1868 was one in which, from want of rain until the latter part of the year, there was a partial failure only of the supply of food for cattle, and, therefore, the effect was not much felt, and the mean price of beef for the year was lower than that of the preceding year. The import of foreign cattle during 1868 was small, and the percentage of them in the market low, notwithstanding that the highest price for beef rose to 9d. in the latter part of the year. In 1869 the mean price of beef rose upwards of a halfpenny a pound, and the supply of foreign cattle in the market rose to upwards of 51 per cent. In 1870, both the grass and root crops failed, not only in this country, but on parts of the continent from which we get our supplies, the result being forced sale of stock for the butcher, keeping down the mean price of beef below that of 1869, but raising the highest price of beef to 9½d. and the highest quarterly average to 9d., in December last. Notwithstanding this high price, our foreign import was less than that of the preceding year, and the percentage in the market was reduced to a little over 40 per cent. In the year 1871 the crops have been plentiful, but the cattle for feeding scarce in this country; the home supply has therefore been reduced, and the prices have ranged higher than in 1870, the mean price of beef for the year being 7½d. The scarcity of cattle did not appear to apply to our foreign producers, and, therefore, our import increased considerably, but the proportion going to the Metropolitan Market is only slightly increased. During the year we have imported upwards of 45,000 more cattle than we did in 1870. This country appears to have been able to do without Irish cattle until 1759, and without a foreign supply up to the year 1842, when the prohibition on their importation was rescinded, and a duty of 10s. to 20s. per head was substituted, which was only removed in June, 1846. The trade increased from 45,043 head in 1846, to 283,271 in 1865, and this is the largest number imported into the United Kingdom in any one year.* Germany (including Schleswig-Holstein) and the Netherlands have for many years supplied us with by far the largest portion

of our foreign cattle. During the year 1865, Germany supplied us with upwards of 31, and Holland upwards of 48 per cent. of our total foreign importation. In 1866, the importation from Holland was prohibited, and it was not until December 1867 that this prohibition was altogether removed. Germany although never prohibited from sending cattle, was placed under exceptionally severe restrictions from September 1870 until April 1871. Notwithstanding these disadvantages, and also the fact that the Netherlands suffered severely during 1866-7 from cattle plague, these two countries during the five years ending December 1870, supplied us with 65 per cent. of our foreign cattle, of which Germany sent us 40 per cent. and Holland 25 per cent. During the year 1871, however Holland furnished 43 per cent. of our supply and Germany only 31 per cent. As regards cattle, the Netherlands is a producing country and Germany, like Great Britain, is an importing one. The Netherlands has prohibited importation of cattle since the 1st of January 1871, but nevertheless was able, during the first five months of the year 1871, to send us 21,450 head, and during the same period to send to Germany 15,740 head, whilst Germany only supplied us with 15,052 during the same period. It may be assumed, therefore, that Germany can only send us cattle by importing them. If Germany obtains its supply from the Netherlands, it could scarcely compete with that country in our markets; if elsewhere, it would probably be from the countries on its eastern frontier, at a great risk of the introduction of cattle plague. Apart from the risk of the introduction of disease which, as has already been shown, would be entailed by such a course, and which, by the losses occasioned, would probably have the effect of raising prices, it will appear that increased import to this country is influenced by other circumstances than the restrictions here, and that, so far as our experience goes, it would appear that any increase in the amount of foreign import of cattle arises from an excess of price in our market over that which can be obtained in the continental markets.

Price of Meat.—The price of meat, or rather the discovery of the law which governs it, is a difficult subject of inquiry, but has probably been rendered more so by mixing up the retail and wholesale prices, as no direct connection has been shown to exist between the two. It is, therefore, proposed to limit the present consideration to the wholesale prices; but it may be here stated that there appear to be four circumstances affecting the retail which do not affect the wholesale price of beef, namely: (*a.*) The introduction of the element of feeling in the shape of like or dislike. (*b.*) The disregard generally of the principle of buying in the cheapest market. (*c.*) The demand for special, or what are considered best joints, which in London entails an addition to their cost of production, not only on account of the limited supply, but also on account of the double carriage upon the inferior joints, as these appear to be consumed to a larger extent in the country. (*d.*) The profit required by the middlemen through whom the beef passes to the retail butcher. Disregarding the retail price of beef, and bearing in mind the circumstances which have already been stated to be disturbing influences upon the demand for beef, and therefore upon its price, it would appear that any increased supply of cattle must be produced at an increased cost, and that therefore we cannot expect to get an increased import from Germany unless we are prepared to pay an increased price for it. An increased supply of cattle and a reduction in the price of beef may possibly be obtained by one of the three following means:

a. Increased Supply from Abroad.—The only way in which an increased supply of foreign cattle can be obtained at a reduced price is by reducing the total cost of their production to us. The total cost of production as regards foreign cattle in this country is made up of the cost of production at the place where the cattle are produced, the cost of transit to this country, and the profit required in a rather hazardous trade. The cost of production abroad, being composed principally of labour and rent, must necessarily be a gradually increasing item, so long as we get our foreign supplies from the neighbouring countries of Europe, and there is very little hope that this item will be reduced. Nor can we hope to be able to reduce the cost of transit to this country from those ports whence we derive our supply, at least so far as London is concerned. Cattle are now brought to London from Holland at considerably less

* The large importation in this year is probably principally due to the cattle plague in this country and in Holland in the latter part of the year.

than half the price of the transit of them by railway from Scotland. So far as regards our foreign supply, therefore, it appears that we can scarcely hope to reduce the total cost of production of cattle from those countries from which we at present obtain our supplies. If we wish to increase our foreign supplies, without an increase of price, we must endeavour either to get additional supplies from those countries which have not, as yet, sent us all they can produce, such as Denmark, Norway, Sweden, Spain, and Portugal, or to go for a further supply to countries where the cost of production is less, and endeavour, by reducing the cost of transit and the risk of losses to a minimum, to reduce the total cost of production, less profit, to an amount which at the market prices will leave a fair margin for such profit.

b.—Increased Home Supply.—So far as regards England, it is scarcely probable that an increased supply can be produced except at an increased cost, as, if this had been the case, prices would probably have remained such as would have entirely stopped our foreign importation, and also that which takes place from Ireland. That the difference of price which brings our foreign import is very small is shown by the facts which have already been adverted to, and this is corroborated by the evidence given before the Select Committee on the Metropolitan Foreign Cattle Market Bill, by the then Chairman of the Metropolitan Cattle Market, that a difference of from 5s. to 10s. per head would have the effect of keeping foreign animals out of London altogether. England, however, is totally unable to supply its own consumption of cattle, and absolutely pays to get a supply from Scotland considerably more for the transit of these animals than is paid for the transit of animals produced on the Continent. If the cost of transit from or the cost of production in Scotland could be reduced, or if a larger number of cattle could be produced in Scotland at the same price, then Scotland might furnish us with the supply required to reduce the price of meat. Ireland, however, appears able to produce cattle at a moderate cost, and the transit expenses to this country are small. The further development of the production of cattle in Ireland would therefore probably meet our wants. That the total cost of production to this country of Irish cattle is considerably less than that of foreign cattle is shown by the fact that, during the four years ending December, 1869, we received 1,800,083 head of cattle from Ireland, whilst we only had 764,322 head from all foreign countries, and that the trade can be increased is shown by the absolute increase which has already taken place in the importation into this country from Ireland, and also by the increase in the cattle population of that country, and in the land under cultivation for green crops, grass, and clover.

c. Importation of Beef.—There is another means by which it is possible that the price of our beef may be kept down, and an increased supply obtained without, however, increasing our import of cattle, and this is by the larger importation of beef in a fresh, preserved, or salted state. For some years there has been a considerable import into this country of dead meat; the amount in 1869, according to the Customs report, being upwards of 25,000 tons, of which nearly half was beef. This large import of beef came in a year when the import of live cattle had increased upwards of 60 per cent. over that of the previous year, and would probably represent nearly 50,000 head of cattle. Should any process be discovered by which beef could be sent from Australia or other distant place where it is produced at a low price, and reach this country in such a state as to be a substitute for freshly-killed beef, it would go far to supply our wants and prevent the inevitable increase of price resulting from increased demand for a commodity which can only be produced here in greater quantity in an increased cost.

FOOT-AND-MOUTH DISEASE.—Before entering upon the restrictions proposed for preventing the introduction and spread of foot-and-mouth disease, it seems advisable to give a short account of the origin and history of the disease in this country, and of the present outbreak. Whether it was or was not first imported into this country in 1839, or had a spontaneous origin about that time, or had existed here long before that date, remains to be proved, but there appears to be no doubt that it existed in London in August 1839, three years before the prohibition on the importation of foreign cattle was removed, and that before the end of the year it existed in most parts of England and some parts of Scotland. During 1840 and 1841 Great Britain suffered to a most serious extent from

it. The malady was more malignant at that time than it has ever since been. In 1842 and 1843, and the early part of 1844, notwithstanding that the prohibition on the import of foreign cattle was removed in July, 1842, the foot-and-mouth disease was not so prevalent. In the latter part of 1845, however, it again spread very widely, but, notwithstanding that in March, 1846 the duty on foreign stock was removed, from that year until the end of 1851 the disease gradually declined, although our cattle import increased from 16,833 in 1845 to 86,520 in 1851. In 1852 there appears to have been an outbreak of this disease fully as extensive as the present one, yet the increase in our foreign import in this year was nearly 23 per cent. less than that of the year preceding. From 1853 to 1860 the disease only existed to a slight extent, and in these years our foreign supply of cattle had fallen off. From 1861 to 1865 the disease was widely spread, but less so than in many former years, although our import was gradually increasing and our greatest import occurred in 1865. During the time of the cattle-plague very few cases occurred, probably on account of the severe restrictions on the movement of cattle. In 1869 it again increased, and this increase has been continued in 1870 and 1871. Although, therefore, there appears to have been, in certain years, some connexion between the increase of foot-and-mouth disease and an increase of importation of foreign animals, yet the facts that the disease was prevalent throughout the country years before such animals were allowed to be imported, that the admission of foreign stock in 1842 was not attended with an increase in the number of outbreaks, and that increased import does not seem to be invariably followed by an increase in the disease, seem to indicate that this connexion is accidental and not that of cause and effect. Nor does it appear that any of our later outbreaks can be traced to foreign animals. The disease has not ceased to exist in this country since 1839, therefore it is much more reasonable to suppose that some general causes, such as those which are atmospheric or climatic influences, or those inducing greater movement of animals, have caused the disease, already existent, to spread, rather than that the comparatively small number of foreign cattle imported under severe restrictions, and generally for immediate slaughter, should, time after time, have introduced it. It has been asserted that the extent of the present outbreak of foot-and-mouth disease has been caused by the removal of the restrictions formerly placed upon the movement of cattle from the Netherlands, but it does not appear that any distinct confirmation of the statements can be arrived at, nor have many cases been reported in which it is alleged that the disease was directly communicated by these cattle. That there was an undoubted increase of the disease last year soon after Dutch cattle were admitted free is certain, but it remains to be proved that the importation of these cattle had any connexion with this increase. Several cases of supposed infection from these cattle have been inquired into, not only as regards outbreaks of foot-and-mouth disease, but also of pleuro-pneumonia, but the evidence supporting this view has always broken down. It is quite possible that some of the outbreaks of the foot-and-mouth disease in this country have been due to Netherlands cattle, but highly improbable that many of them have had such an origin. At the time these cattle were allowed to be moved inland there were at least fifty counties in Great Britain in which the disease existed, in most of which free movement of cattle which had been herded with diseased ones was allowed. This appears to be confirmed by the fact that during the year 1871 no case of foot-and-mouth disease or pleuro-pneumonia occurred in the parishes of either Harwich or Dovercourt. These parishes contain an area of upwards of 3,000 acres, within which area are many farms and dairies. At Harwich more Dutch cattle have been landed since the restrictions were removed than at any other port in Great Britain, except London. The cowkeepers at Harwich and Dovercourt are in the habit of filling up any vacancies in their dairies with Dutch cows, and there is scarcely a farmer in Dovercourt parish who has not taken Dutch cattle in to keep. Notwithstanding this, these parishes enjoy an exceptional freedom from contagious or infectious diseases amongst their stock. From all the evidence which has been obtained it does not appear to be proved that the foot-and-mouth disease generally, or the present outbreak in particular, can be traced to a foreign origin. That foot-and-mouth disease is readily produced by contagion has repeatedly been proved; indeed, so readily is it communicated in this way, not only by

animals but by man or any substances which have been in contact with diseased animals, that it is an extremely difficult matter to prevent its spread, and many instances of outbreak have occurred in which it has been found impossible to trace the means by which it could have been communicated. An instance of this kind occurred at Caldy Island where the disease has appeared, but the gentleman who has reported on the matter has been unable to account for it. In this case, however, an outbreak of the disease occurred at Tenby, on the 29th of September, 1871, and the outbreak on Caldy Island on the 4th of October, and although it is stated that there had been no importation of any animal whatever into the island, it is also stated that a small boat goes over from Tenby occasionally with foot passengers which would be quite sufficient to account for the outbreak. It is quite possible that the disease has rarely of late years been produced in any other way than by contagion, although we have not in some cases been able to trace it. A reference to the history of the disease will show that it existed in this country three years before the prohibition against the importation of foreign animals was removed, and that the prevalence or diminution of the disease has not, in the great number of instances, followed the increase or decrease of importation. That many of the outbreaks in the present visitation of foot-and-mouth disease have been due to Irish cattle cannot be doubted. One of the Inspectors of this Department has on three different occasions lately visited Bristol market, and on each visit one or more Irish cattle affected with foot-and-mouth disease were seized by the inspector of the local authority, and this in a market in which there are generally thousands of cattle which are distributed to all parts of the country. This means of distributing the disease is doubtless a fruitful one, and will continue to be so as long as purchasers can be found in markets for cattle which are either affected with the disease or have been herded with others so affected. A much larger number of cattle are imported from Ireland than from all foreign countries, and they are allowed to land at most of our ports, and are not subject to the same regular inspection and detention on landing as that to which foreign cattle are subject. The present prevalence of foot-and-mouth disease may also be accounted for by its spread from the centres in which this disease existed in this country before it attained its present prevalence, or all these suggested causes may have operated together in producing it.

RESTRICTIONS FOR PREVENTING THE INTRODUCTION AND SPREAD OF FOOT-AND-MOUTH DISEASE.—Before the last outbreak of cattle plague, the animals of this country had been for many years periodically affected with foot-and-mouth disease, and the outbreak in 1852 has been pronounced by competent authority to have been as extensive as the present one, whilst the outbreak in 1840-41 was more malignant than it has ever since been. Notwithstanding this, the farmers of Great Britain do not appear to have attached much importance to the disease, nor to have wished that any stringent regulations should be enacted for its suppression, as will be seen from the following statement of the result of an attempt made in 1864 to place this disease under the same regulations as some of the other more important contagious or infectious diseases affecting animals. At the beginning of March, 1864, the Cattle Diseases Prevention Bill and the Cattle, &c., Importation Bill were referred to a Select Committee, who, after examining a large number of witnesses representing all the varied interests, and continuing their sittings until the end of June, reported that they "have considered the said Bills and have taken evidence thereon, and have gone through the Cattle Diseases Prevention Bill and made amendments thereunto." In this Bill, when referred to the above Committee, foot-and-mouth disease was included in the schedule of contagious or infectious diseases. In the Bill, as amended by the Committee, foot-and-mouth disease does not appear. The decision arrived at by the Committee is fully borne out by the general evidence taken before them, and is thoroughly supported by what we may fairly look upon as the representatives of the farming interests not only in this country but also in Scotland. Mr. Maxwell, who was examined before them, representing not only the Highland Agricultural Society, but also the general feeling in Scotland on the matter, stated that there was a decided objection to the regulations proposed by the Bills with regard to foot-and-mouth disease, as being not only unnecessary but impracticable. Mr. Congreve, the then

chairman of the Central Farmers' Club, who was also examined, and who may be taken to represent the farming interest in England, stated that there is a decided objection among farmers and graziers to placing severe restrictions on animals suffering from foot-and-mouth disease, that immense loss and injury would be inflicted thereby, whilst the price of meat would be largely enhanced, and that the great objection to the proposed Cattle Diseases Bill was with regard to foot-and-mouth disease. That in 1867 this feeling still continued is shown by the circumstance that in that year the Lord President presented to the House of Lords the Contagious Diseases (Animals) Bill, and that in this Bill, which was referred to a Select Committee, the clauses which gave power to the Privy Council to include any disease under the term contagious or infectious disease, and to inspectors the power of entry in any contagious or infectious disease, were taken out of the Bill as amended, and also out of the Act as passed. In the Act which passed in 1869 a similar limit to the power of entry of Inspectors was continued, and thus it appears that up to that date the tendency had always been to limit the restrictions upon and interference with animals affected with this disease. That the intention of Parliament was to place foot-and-mouth disease under less stringent regulations than the other contagious or infectious diseases amongst animals named in the Act is shown by the omission of the power of entry above referred to, and also by the special provision in section 57 of the Act, which allows the Privy Council to alter the regulations with regard to the movement of animals affected with this disease, but not those affected with cattle plague, pleuropneumonia, sheep-pox, or glanders, and the wisdom of not applying the severe restrictive measures which were imposed during cattle plague, to check the spread of a disease like foot-and-mouth disease will, it is thought, be shown under the following heading. After carefully considering these matters the Lords of the Council came to the conclusion that the provisions of the Act which prohibit the movement of affected animals, and provide for general disinfection, and the powers conferred on local authorities for regulating the movement of animals herded with those affected, and for particular disinfection in this disease, if effectually carried out and backed by the farmers and graziers, would be sufficient to check the spread of this disease. The general objection made to the present restrictions by the Chambers of Agriculture and the local authorities is that they are not sufficiently stringent, and that it is necessary that further action should be taken. The demand that the Privy Council should take extreme measures in order to check the foot-and-mouth disease is one of very recent origin, and has probably arisen from the representations which have appeared in the public press, containing statements that this disease was a most serious one, and in results nearly as bad as rinderpest. That this is not the case is shown by the following statement, but that its spread and the losses occasioned thereby are very serious cannot be doubted. Since the passing of the Contagious Diseases (Animals) Act, 1869, up to the end of 1871, we have received information of 92,162 outbreaks of foot-and-mouth disease, in which 1,344,625 animals were attacked. Of these only 1.136 per cent. died, 327 per cent. were killed, and 98.537 per cent. recovered. The percentage of deaths as indicated by these returns is very low, but even this is said to be much higher than it should be, on account of the want of proper treatment. Contrast this with cattle plague, in which the cattle killed were, in its last visitation, upwards of 36 per cent. of those attacked, the deaths amounted to nearly 49 per cent., and only 15 per cent. were recovered for our use. It does not appear, however, that anything short of stopping all markets, fairs, exhibitions, and sales of animals, and putting severe restrictions on their movement, would eradicate this disease even for a time. To do this effectually would also necessitate the appointment of qualified veterinary surgeons in each district, would entail considerable expense, and would afford no security against future outbreaks. Their lordships were of opinion that these stringent measures, although submitted to for the purpose of stamping out cattle plague, would not be borne in a disease which is so rarely fatal as foot-and-mouth disease. Some farmers, indeed, do not appear to believe that this disease is spread by contagion, or if so, do not consider it of sufficient importance to take the simplest precautions against its introduction and spread. The objections which appeared to apply to placing additional restrictions on the home trade apply equally to the Irish and to

the foreign trade; and the proposal to slaughter all foreign cattle at the landing places has the additional objection that, by reducing the price which the cattle would fetch, it is more than probable that such course would have the effect of checking the importation of the comparatively healthy foreign cattle which have formed upwards of 72 per cent. of our total import. The objections to quarantine, except where advantage may be taken of the detention for the purpose of fattening the animal, appear to be the expense and the interference with trade, both which items would tend to increase the cost of production and therefore the price of it. The tendency of this would be to stop our foreign importation, as it has been stated that a difference in price of from 5s. to 10s. per head, would be sufficient to stop all the foreign cattle from coming to London. Since 1866 to the present time a quarantine ground for foreign animals has been open at Southampton, but during the whole of this period very few animals have been quarantined there. It is not, therefore, probable that advantage would be taken of this process for the introduction of cattle unless it were made a regulation for all foreign cattle. It is doubtful whether either of these applications have been finally disposed of.

CONTAGIOUS DISEASES AMONGST HOME ANIMALS DURING THE YEAR 1871.—Cattle plague has not reappeared in this country since September, 1867, notwithstanding that it existed in France, Belgium, and Germany in 1870-71, and several outbreaks in the former country occurred within 30 miles of our shores. Pleuro-pneumonia has appeared during the year in 68 counties of Great Britain on 1,755 farms or premises. Including 734 cases of this disease said to have been produced by inoculation, 5,869 cattle were attacked, of which 2,207 were killed, 1,339 died, 2,332 recovered. There remained, from the year 1870, 133, and at the end of 1871, 124 head of cattle suffering from the disease. Foot-and-mouth disease has been very prevalent during the year, no less than 52,164 fresh outbreaks having been reported to this department, in which 691,565 animals were attacked. Of these 2,051 were killed, 5,853 died, and 633,084 recovered. These do not represent the total animals which have suffered from this disease, as some of the local authorities furnished the department with very imperfect returns, and others declined to furnish them at all. Consequently any comparison between the years 1871 and 1870 would be valueless. Such numerous complaints were made of the serious inconvenience and expense of making these returns and the comparative uselessness of them, that their lordships decided that from the end of the year no further returns should be required from the local authorities; and the necessary alterations to effect this were made in the Order of the 20th of December, which came into operation on the 1st of January, 1872. No cases of sheep-pox have occurred amongst our home stock during the year, nor indeed have there been any cases in home stock since the passing of The Contagious Diseases (Animals) Act, 1869. This is a great improvement upon former years, in which considerable loss was entailed by this disease. In 1847 this disease was introduced into this country by foreign sheep, and spread to our home flocks in various parts of the country, causing great loss and continuing at one place or another until 1850. Another outbreak occurred in 1862, and continued for five months. In 1865 it visited a farm in Sussex, and in January, 1866, one in Northamptonshire, but was in both instances checked by the vigorous measures taken. In 1866 it also appeared at two different places in Essex, and in six places in Cheshire. All these outbreaks were doubtless due to the introduction of disease from abroad. In those cases which occurred after the establishment of the Veterinary Department, they were carefully inquired into, and the proper measures at once taken, to check the spread of the disease. The beneficial effect of the restrictions of the Privy Council with regard to the importation of foreign animals, and of the careful inspection at our ports ordered by their lordships, is shown by the fact that, notwithstanding that in 1868 nine vessels infected with sheep-pox brought 8,519 foreign sheep to this country, not a single case of that disease occurred during that period in our home stock. Up to the passing of The Contagious Diseases (Animals) Act, 1869, it was necessary that Orders of Council should be passed on the occasion of an outbreak of this disease; but by that Act the machinery was made self-acting, not only as regards cattle plague, but also with regard to sheep-pox, and thus the delay and expense of

an immediate inquiry by an inspector of this department, and of passing special Orders, has not been required. In each of the years 1869, 1870, and 1871, this disease was once introduced by foreign sheep, but our home stock has been free from it. Sheep-scab appeared during the year in 65 counties of Great Britain. There were 58,089 sheep attacked, of which 385 were killed, 779 died, and 39,638 recovered. The returns relating to this disease are not satisfactory, and it appears to be almost impossible that they can be made so. The disease, however, is certainly capable of being easily checked, and it rests with the local authorities to take the necessary action. Glanders, so far as our returns indicate, does not appear to be a disease so extensively distributed as some of the other contagious diseases of animals. In 1871 it only appeared in 31 counties of Great Britain, in which 204 horses were attacked, which number, added to 24 remaining diseased on the 31st of December, 1870, gives 228 cases of the disease. Of these 203 were killed, 10 died, 5 recovered, and 10 remained diseased at the end of the year. Reports have been received of the existence in this country of other diseases said to be contagious or infectious, but none of them have been, as yet, so declared by the Lords of the Council.

CONTAGIOUS DISEASES AMONGST ANIMALS IN FOREIGN COUNTRIES.—Cattle plague has been more extensively distributed over the continent of Europe during the years 1870-71 than for many preceding years, and has approached so near to our shores that it might at any moment have been introduced. Their lordships, by promptly prohibiting the importation of cattle and ordering the slaughter at the port of entry of sheep brought from Belgium, France, and Germany, so long as cattle plague existed in those countries, prevented its introduction and spread by animals from those countries, and fortunately this disease was not introduced into this country by any indirect means. A reference to the Appendix will show the wide distribution of this disease during the year. It does not appear from our consular reports that pleuro-pneumonia existed in any other country than the Netherlands in 1871, although the return of one of our inspectors certifies that one case was imported from Germany, and another from Australia. Foot-and-mouth disease has, during the year, been widely distributed not only in this country but also abroad. It has existed during the year in Denmark, Italy, Portugal, Russia, South America, Spain, Turkey, in Europe and the United States, as well as in this country, and has given us considerable trouble at the ports, no less than 581 cattle and 66 sheep affected with this disease having been slaughtered at the landing places. Only one province of Germany, namely Pomerania, is reported to have been visited with sheep-pox during the year. Our inspector, however, detected it in a cargo brought from Hamburg. Sheep-scab was only reported to have existed in the same districts in Pomerania, and at Girgenti in Italy, where it attacked goats. Cases, however, were imported into this country from Bremen, Bremerhafen, and Hamburg, as well as from Belgium, India, and New Zealand. Glanders existed in Germany in the same districts, but no case of this disease was imported into this country.

INSPECTION.—The inspection which takes place under The Contagious Diseases (Animals) Act, 1869, may be divided into four branches, namely: *a.* Local inspection. *b.* Inspection at ports. *c.* Departmental inspection. *d.* Inspection connected with animals in transit.

a. Local Inspection.—Local Inspectors are appointed by the local authorities, and it is on these Inspectors depend the discovery of contagious or infectious disease amongst animals in Great Britain, and the prevention of its spread. This department is dependent upon them for nearly all its information regarding outbreaks of disease, and ample provision has been made in the Act for these purposes, as it provides that every local authority shall at all times keep appointed at least one Inspector. Under this provision about 1,300 Inspectors were during the past year in office. These Inspectors are constantly in direct communication with this department, but the department has no control over them, except to direct their removal in case of incompetency, misconduct, or neglect. The Act also provides that they shall make such reports to the Privy Council as the Privy Council may from time to time require. This provision has, however, never been enforced to a greater extent than that necessary to obtain returns connected with contagious or infectious disease.

b. Inspection at Ports.—The inspection of the foreign animals which come to ports of this country is for the purpose of preventing the introduction of contagious or infectious diseases from abroad. The importance of this branch of inspection cannot be too highly estimated, but its value as a protection depends on the more or less efficient manner in which it is performed; the amount of danger of the introduction of disease being reduced in almost direct ratio to the amount of knowledge and care brought to bear upon its detection. This danger has not during the past year been an imaginary one, for cattle plague has existed during that time in Austria, Belgium, France, Germany, Italy, Russia, Switzerland, and Turkey, and the movement of cattle which took place during the war, for the supply of the armies engaged, tended to increase its spread. Not only was cattle plague prevalent abroad, but also other contagious or infectious diseases amongst animals; thus sheep-pox existed in Germany; pleuro-pneumonia in Holland, Germany, and Italy; foot-and-mouth disease in Germany, Belgium, Denmark, France, and Italy; and either of these or other diseases supposed to be of a contagious or infectious nature existed in other parts of the continent of Europe, in Asia, Africa, and America, particulars of which will be found under the heading Contagious Diseases amongst Animals in Foreign Countries. During the financial year 1869–70 the Inspectors employed at ports in Great Britain, numbering nearly 100, were under the control of the Customs, who paid them by fees when their services were required, and only employed them for the inspection of foreign animals.

c. Departmental Inspection.—There were two Inspectors attached to the department in 1871, whose duties are: To examine into and report upon any contagious or infectious diseases occurring amongst animals in any part of Great Britain, or upon any other diseases concerning the nature of which there may be any doubt, and to carry out any experimental or other investigations which may be considered advisable relating to these diseases: To examine into the Consular Reports relating to diseases amongst animals in foreign countries, and to report as to their nature: To advise generally as to the precautions which should be adopted for the purpose of preventing the introduction of contagious or infectious disease from abroad, or its spread when it exists in this country. These duties generally occupy the whole of the time of the two Inspectors attached to the department. When not so occupied, one or the other of them is employed in the inspection connected with animals in transit.

d. Inspection connected with Animals in Transit.—During the passing of The Contagious Diseases (Animals) Bill a very strong feeling was expressed in both Houses in favour of legislation for the prevention of cruelty to animals, and more especially in the case of those which were necessarily brought long distances alive either by sea or land. The result was the insertion in the Bill of certain clauses entrusting large powers to the Privy Council, with a view to their legislating on this matter, in order to remedy the evils which are very generally admitted to exist. The Bill received the Royal Assent on the 9th of August, 1869, and on the following day, namely, the 10th of August, the Lord President appointed a Committee to consider the powers entrusted to the Privy Council, and how these powers should

be exercised. In consequence of the recommendations of this Committee the Lords of the Council have on various occasions passed Orders containing provisions relating to the transit of animals both by sea and railway, the cleansing and disinfecting of vessels, railway trucks, and other places, the shipping, unshipping, and watering cattle at ports, and the provision of water at railway stations. The carrying out of these and other Orders really rests with the local authority, but it was soon found necessary for Inspectors attached to the department occasionally to visit all the ports and railways in Great Britain to ascertain whether the local authorities carry out the duties and powers conferred upon them. In previous years no arrangements were made for this, except so far as the two Inspectors of this office could spare time to attend to the matter, but it was found impossible that they could attend to their routine duties, and also to those which should be performed in connection with animals in transit. The inspection, therefore, which should have taken place for the purpose of preventing the spread of contagious or infectious disease amongst animals in transit, and for protecting them from cruelty, was, until 1871, almost entirely neglected, and thus the powers given by Parliament to the Privy Council, although exercised with great promptitude by their lordships, were almost inoperative for their want of means for ascertaining whether their lordships' orders were carried out or not. Though the supply of animals to Great Britain from Ireland exceeds that brought from abroad, and the deficiencies in the arrangements in the vessels used for their transit were specially pointed out by the Committee in their Report, and the Order above referred to applies as well to Irish as to foreign vessels, yet, up to 1871, no arrangements whatever had been made for the inspection connected therewith, nor do the Customs Authorities now take cognizance of the arrivals of these vessels at our ports. On a careful examination into the subject, it appeared to the Lords of the Council that the responsibility of the inspection at the ports rested with the department of the Council Office having charge of these matters, and that it would be advisable that the Veterinary Department should be directly in communication with the Inspectors, instead of, as heretofore, indirectly through the Customs. Their lordships also considered that the greater number of these officers should be attached to the Department, so that their services, when not required at the ports, might be utilized for the other purposes connected with inspection which had hitherto been neglected. Having obtained the sanction of the Treasury to this arrangement in March, 1871, their lordships immediately commenced a re-organization of the system, and during the year reduced the number of ports at which foreign cattle could be landed, the number of Inspectors employed, and engaged the greater number of them at fixed salaries, with their whole time at the disposal of the department, paying, by fees, a few of them stationed at those ports at which the importation of foreign animals is small. By this means their lordships were enabled, without additional cost, to combine the inspection at ports with the other inspection required under the Act and Orders. This system has hitherto worked very well.

ALEXANDER WILLIAMS.

Veterinary Department, 11th July, 1872.

PROFESSIONAL PROPHECIES.

An ever favourite strategy in the art of war has been the employment of some means by which the attention of the enemy may be directed to one point while an entry is made at another. It is much after this fashion that the enemy would seem to have been dealing of late with English cattle and cattle breeders. Ever and anon an alarm, frequently enough a false one, has been raised as to a case of foot-and-mouth or pleuro-pneumonia having been discovered on the Thames, and how this is sailing straight up to London. More rigid inspection, more foreign markets, and more slaughter are at once insisted on, as foot-and-mouth disease has really been

seen on board a foreign vessel. And in the meanwhile foot-and-mouth disease has been systematically pouring in upon us from another quarter, of which nobody takes any heed. By this time, however, there is not a man in his senses but who has come to see that the present spread of foot-and-mouth disease is due far more to beasts shipped from Ireland than to animals sent into London. In fact, attention has been directed to one point, and the attack has been made in another.

More recent and more serious examples only serve to show how idle it is to consider the Metropolis and the Thames as the very centre and feeder of all kinds of con-

tagion. Within the last few weeks the Rinderpest has re-appeared, or has been suspected amongst some eight or nine cargoes of foreign cattle close off our shores, while the great majority of these cases were not near London, but in the North—at Leith, Hartlepool, Newcastle-on-Tyne, and at Hull. And now the cattle plague has fairly broken out again, but with no pretext whatever for turning to town as the source of supply. At this time there are no connecting links to show how the plague reached to Pocklington on the Yorkshire Wolds; although the actual facts would of themselves promise to furnish the thread of the story. The owner of the diseased animals is a dealer who a few weeks since bought some beasts from Hull and others at Bridlington Quay, while after he got them home he found some of these to be ailing. This is one chapter of the story which ends at Yapham and begins at Hull. A few weeks since, at just about the time required it will be observed, a cargo of diseased stock was condemned off Hull, and the carcasses sent adrift in two lighters, which, however, did not sink as had been intended. With, then, these ill-fated vessels drifting about, let us turn to a map of Yorkshire, where we see in a moment how facile is the communication by sea between the port of Hull and the quay at Bridlington. It is well known that some of the carcasses, as with the Scotch cargo, were landed on the Yorkshire coast; and if, we say, any more tangible links be not forthcoming the history of the Pocklington outbreak must surely be in a degree accounted for. Had the Hull beasts been thoroughly disposed of, by burning, burying, or sinking, the probabilities are that the country would still be free from so fearful a visitation.

In saying so much, it must be understood that we are speaking in direct opposition to the authorities of the Profession. In *The Veterinarian* for September the leading article, clearly the composition of one of the editors, goes dead against any "danger resulting from the recent importation of plague-infected cattle." It ridicules, moreover, "any grave apprehension" as to anything which may follow from any of the carcasses, or portions of them, being washed on the coast: "Setting aside the effects of sea-water in neutralising the virus, a half-decomposed ox is not likely to be allowed to remain long enough above ground to do any harm; and as to the communication of the poison by the agency of the atmosphere, after having seen animals standing for months within less than a furlong of the dead and dying of cattle-plague, without being affected, we are not likely to become converts to the atmospheric theory of infection." This reads very like encouragement, or at least as a defence for the carelessness of the Hull executive. Even further, there is a self-complacency here, which assumes too much and denies too little. The chances are that the half-decomposed plague-struck ox will be found by a labourer or other landsman going to or from his work, who naturally enough will closely examine his prize with a view to its worth, and then possibly pass on. If then, the sea-water has not neutralized the virus—a point upon which *The Veterinarian* is manifestly not quite certain—we see in a moment how the contagion may be carried from Hull to the Wolds. The example which follows goes in reality to little more than proving a negative: "Two years ago, when cattle plague was raging at Landermann, the authorities on one occasion found themselves with something like seven hundred carcasses of cattle on their hands, with no means of burying them. Under these awkward circumstances, they hit upon the expedient of packing them in two old vessels, sending these out five and twenty leagues to sea and scuttling them. The ships did, it seems, what the lighters at Hull refused to do, sink; yet, notwithstanding the success of

the scuttling and the distance from shore, some thirty of the carcasses were washed up and stranded; but we were not told that any fresh outbreaks of cattle plague occurred in the places where the dead cattle were thrown ashore."

An official report of the Pocklington outbreak should of course be drawn up, and in this paper it is very necessary that the danger or non-danger arising from washed-up carcasses be plainly spoken to. *The Veterinarian*, as we have shown, holds to the opinion of there being little to fear from such a course; but, like most professional "opinions," this is so continually hedged that it is difficult to interpret the writer's actual intention. Home-grazed beasts carry rinderpest forty miles inward, from the coast whereon they were bought and sold at a market in almost neighbourly communication with a port from which cargoes of diseased carcasses were simply sent adrift. The proof here rests so far with those who hold an ox to be washed clean in sea water. "The cattle-plague is now well understood by our Veterinary Inspectors," and "cattle plague has been for years unknown at our ports:" so says Mr. Williams in his Privy Council Report, as issued in August. "The escape we have had is a narrow one, for security depended not only on the quick detection of the disease, and the destruction of infecting material as centred in animals themselves, but in the disinfection, or otherwise dealing with matters, things, and persons, so as to prevent the *materies morbi* being carried to our cattle. After the experience we have had of the value of the present system of inspection, we may hope that the country will be somewhat less excited when the new cargo of plague-stricken animals arrives upon our coast." So says *The Veterinarian* in its leader for September, and already have both these self-satisfactory proclamations broken down. The cattle-plague is again known at our ports, and we have not escaped. The country has thus too good cause to feel excited, despite detection, destruction, and disinfection. Let the Report show if the use of all such agencies has been thoroughly observed.

The "memorandum" which we give is in reality of little or no moment; while the new Orders, with the suspicion of contagion still lurking about, were of course imperative.

OUTBREAK OF CATTLE-PLAGUE IN YORKSHIRE.

On Thursday, Sept. 5, the following placard was circulated throughout the East Riding of Yorkshire:

NOTICE.—A certain field in the township of Yapham being infected with the Cattle Plague, a circle of one mile from the said field is proscribed, and no cattle or other animals are to be taken out or brought within the said district. No person is to pass within the said radius, and the foot-path across the field is stopped for the present. All dogs will be destroyed. The police have strict orders to enforce the foregoing regulations. By Order, GEORGE CORDUKES, Superintendent, E.R.C. Sept. 5th, 1872.

The rinderpest has thus penetrated forty miles inland, and has made its appearance on a farm occupied by Mr. Berryman, Yapham, Pocklington, situate at the southern foot of the Wolds, and the centre of a famous agricultural district. Yapham is an outlying township in the parish, containing some capital grazing land, and Mr. Berryman is an extensive cattle dealer, who also occupies several farms, that at Yapham being his own property. A week or so since a beast in a herd of 22 was taken ill and died. Subsequently another fell ill, and on Monday Mr. Jepson, V.S., cattle inspector for the district, was called in, when he declared the case suspicious, and met Mr. Berryman in the pasture on Tuesday morning. Mr. Jepson then declared the case rinderpest, and ordered an infected animal to be killed, a *post-mortem* examination of which, conducted by himself and Mr. Douthwaite, inspector

of cattle for the East Riding, was made. On the same day Mr. Jepson brought Mr. C. A. Darley, chairman of the petty sessions at Pocklington, to inspect the cattle, and he called a meeting of the local authorities that day, consisting of himself, the Hon. Admiral Duncombe, and other magistrates. These authorities communicated immediately with the Privy Council, who sent down their inspector, Mr. Wilkinson, of Newcastle. On his arrival on Wednesday he found six animals dead, exclusive of the one that had been killed by Mr. Jepson for examination, and he declared the disease to be without doubt rinderpest. Several of the cattle then affected have since died, there being, up to Thursday, seven fatal cases and one killed. The remaining animals in the herd, 14 in number, have been slaughtered, and the bodies buried in pits covered with quicklime. The footpaths have been stopped, and disinfectants used in all the gateways; and a cordon of police has been established round the infected circle. Great energy has been displayed by the police to have the disease stamped out. The cattle were bought three weeks ago by Mr. Berryman at Hunmanby, near Filey; the 22 head costing £337. They were grazed by Mr. Wise, of Sewerby Grange, and sold by him to Mr. Woodcock, of Bridlington Quay, who disposed of them in turn, by auction, to Mr. Berriman. After the cattle were sold by Mr. Wise to Mr. Woodcock they were driven to Beverley and Driffield, and then to Hunmanby, and on being sold here they were again, notwithstanding the hot weather, driven to Yapham. Two weeks, however, are said to have elapsed between Mr. Wise selling the beasts and their being bought at Hunmanby, and three weeks more before any illness developed itself. By other reports it appears that on the 12th August, Mr. Taylor, of Sewerby Cottage, Bridlington, bought three steers at Hull, and these were sold at Hunmanby on the 19th ult. along with other animals. It is believed Mr. Berryman, of Yapham, was the purchaser of these steers, and as two other gentlemen bought beasts at the same time and place, which are now in excellent health, it is thought probable the Hull animals have conveyed the rinderpest to the other beasts in Mr. Berryman's possession.

The Privy Council Office has published the following memorandum:

It appears, as far as the Privy Council are informed, that Mr. Berriman, the owner of the cattle, bought them at Hunmanby market on the 19th or 20th August, and took them by road to his farm at Yapham, near Pocklington, where they arrived on Wednesday, the 28th August. Soon after their arrival some of the herd were found to have the foot-and-mouth disease, and were treated accordingly. On Wednesday, the 28th, one of these animals was found to be dying, and others were seriously ill, but cattle plague does not appear to have been detected till Tuesday, Sept. 5. Therefore, although the local authority took all the necessary steps for slaughter and isolation immediately upon the discovery of the disease, there is every reason to believe that it existed for at least a week without any steps being taken to prevent the infection spreading. It appears that one of the dead animals was found lying in a running stream, a fact which, without doubt, increases the danger. By the Contagious Diseases (Animals) Act of 1869, the declaration of an inspector that cattle plague exists, causes the place where the disease is found to be an infected place. Thereupon the local authorities are to slaughter all animals affected with cattle plague. They are also empowered to do the same with cattle that have been in contact or herded with any animal affected with cattle plague. In the outbreak near Pocklington, the local authorities as soon as they received information, lost no time in exercising the powers entrusted to them. They at once caused all the animals in the infected herd to be slaughtered, and declared the farm at Yapham to be an infected place, together with a circuit of one mile from the field in which the infected cattle were. Other powers were by the same Act reserved to the Privy Council, viz., the prohibiting or regulating the movement of animals, and the prohibiting or regulating the holding of markets, fairs, exhibitions, or sales of animals. The Lords of the Council, on Saturday evening, passed an order prohibiting the holding of markets, fairs, &c., in the East Riding of Yorkshire, and in the city of York, except under licence of the Privy Council; and also restricted all movement of cattle in that district, except by licence, the licence for movement from place to place containing, among

other stringent provisions, a declaration that the cattle to be moved have not, for twenty-eight days previously, been in contact with any animal affected with cattle plague. Their lordships in the same order gave power to all local authorities for prohibiting fairs, markets, &c., in their respective districts; also for prohibiting wholly all movement of cattle into their district; and the power of applying similar provisions to those to be enforced in the East Riding of Yorkshire.

A supplement to the *Gazette* of Friday last contains an Order of the Privy Council respecting "the appearance of the rinderpest in the East Riding of Yorkshire, and for the better preventing the spread of the disease in Great Britain." The order took effect from yesterday, and will continue in force until the 1st of December next. By it the holding of all markets, fairs, exhibitions, or sales of cattle within the city of York and within the East Riding of Yorkshire, and all the boroughs therein, is prohibited, except under licence of the Privy Council. Chief amongst the provisions of the order are the following: Cattle shall not be moved within the city of York and the East Riding except by licence. A local authority may make certain regulation to prevent the movement of cattle, and the holding of fairs and markets. Any person exposing cattle for sale in contravention of the order, and the seller and purchaser thereof, shall be deemed guilty of an offence against the order. Cattle exposed for sale in a market, or at a sale, the holding whereof for the sale of cattle for immediate slaughter is licensed by the Privy Council, may be kept alive for a period of six days after such exposure, and no longer. In cases where the Privy Council or the local authority have made a regulation prohibiting the movement of cattle into or within any district, except by licence, cattle may be moved in accordance with the following provisions, viz.: No cattle within the district shall be moved on a highway between sunset and sunrise during this month of September, or between the hours of 6 p.m. and 6 a.m. in the months of October and November next; but nothing in the article shall restrict the movement of cattle within the limits of any city or town. The licences for the movement of cattle shall be of three kinds, viz., a Movement Licence (for general movement), a Market Licence (for exposure for sale), and a Removal Licence (for removal from the market) to be called a "Market Pass." No cattle shall be moved out of the district in which they are except with a licence of the local authority. No licence shall be necessary for movement within the district for a distance not exceeding 500 yards from lands to other lands in the same occupation. Cattle may be moved to a market or sale with a Market Licence or Pass, but not otherwise.

THE POTATO PANIC.—Many of the rumours current as to the extent of the blight are either untrue or altogether exaggerated. I have taken some pains to obtain accurate information as to the effect the blight is likely this season to have upon the yield, and the accompanying extracts from communications to hand may be accepted as reliable. From county Donegal: "About Kilmacrenan, Creeslough, and Falcarragh the potato disease does not appear to be nearly so virulent as last year." County Down: "In this county the failure of the potato crop is only partial. If seasonable weather continue the yield will be both profitable and abundant." County Tyrone: "The reports concerning the blight are greatly exaggerated. Except in low-lying soils the tubers are not so much diseased as at the same time last year. The recent dry harvest weather has had the effect of stemming the ravages of the blight." County Derry: "No more healthy tubers have been dug than those raised this season for several years. The weight of the crop generally will be deficient, because the weather set in with tropical heat as it was coming to maturity; but the quality could not be better." County Antrim: "There is every prospect of a fair average crop, and the appearances of disease are not such as to cause any uneasiness." In consequence of the failure of the flax crop last and previous years a much larger breadth of land has been planted with potatoes this year; and as it was impossible in all cases to obtain good seed indifferent samples were used, and this in some degree accounts for the disease having shown itself in many districts upon a larger scale than last year. The early-planted potatoes have all along proved a well-flavoured esculent, singularly free from disease, and procurable at a moderate cost.

—Correspondent of *The Standard*

TENANT - RIGHT.

At a meeting of the Ross Branch of the Herefordshire Chamber of Agriculture, Mr. Bradstock in the chair,

The CHAIRMAN opened the business by reading the following resolution, which he said, had been agreed to by the Chamber :

That the produce of the soil would be greatly increased if the free application of capital and science in its cultivation was legally secured, in order that the out-going tenant may receive compensation for unexhausted improvements. That leases provide a certainty of tenure, which is essential for the full development of the resources of the soil, but no lease should be of shorter duration than seven years. When no lease exists, twelve months' notice to quit should be the minimum legal notice. That covenants which define a rotary or any other system of cropping, and that provide or regulate the sale of particular farm produce, are frequently inapplicable, and as they restrict the energies of the farmer they should be rendered illegal. That the landlord should be secured against loss from bad farming, or the exhaustion of the land from injudicious cropping, dilapidation of fences, occupation roads, neglect of underground drains and water courses, as may cause a loss on reletting the farm. That all matters in dispute shall be settled by arbitration, and the amount recoverable in one of her Majesty's Courts of Law, and not by distraint as for rent.

If, continued the Chairman, it should be the pleasure of the meeting to concur in that resolution, he hoped that some two gentlemen would move and second its adoption. He would have waited a few minutes longer before offering any observations on the resolution if he thought there was any chance of resident landowners in the district coming in and taking part in the discussion ; but he was afraid, in consequence of their absence from the last meeting, they entertained very faint hopes of the success of the chamber. He had noticed in reports which he had read that in other counties landowners had come forward and given great assistance in forming Chambers of agriculture ; and he did not see any particular reason why the same support should be withheld here, especially as it was very well known that the tenant-farmers throughout the country had given their decided and disinterested support to the endeavours which had been made to direct the attention of Parliament to the incidences of local taxation, which he must say for himself he believed to be almost a landlord's question. It therefore appeared to him surprising that any one should be alarmed at the little difficulty there would be in giving compensation to farmers for unexhausted improvements, especially as it appeared rather doubtful as to who would be rendered liable to make the compensation, for he noticed in the resolution drawn up by the Business Committee of the Central Chamber that it was suggested that compensation should be made by the landlord or tenant. He had also noticed in speeches which he had seen reported that there seemed to be rather a difficulty ; many speakers, according to the terms of the resolution, speaking as if the tenant should be the party to make the compensation. Putting all those things together, it amounted to this—that unless tenant farmers were united, while the landlord element in the Central Chamber and in the local chambers would redress the grievances of out-going tenants, they would establish greater ones upon their successors. He could not conceive anything more unjust than to require an out-going tenant to pay compensation, when, in nineteen cases out of twenty, he would have to pay for improvement to the landlord amounting to 4s. or 5s. an acre, which would in effect be paying 20 or 25 per cent. on his own money. There was also some difference of opinion as to whether compensation should be made legal by agreement, by custom, or by legislation. He (Mr. B.) was of opinion that there would be no great objection to its being entered into by agreement by the owner of large hereditary property, where, as from time immemorial, son would be allowed to succeed father from generation to generation without rearrangement to any great extent. Compensation would,

therefore, be a matter of little importance to such persons ; but he really thought there would be some difficulty as to heavily-encumbered estates. In other cases, where estates were bought for investment with a view to obtain a high rate of interest—and which was often very much enhanced—tenant's advantages were taken in wherever opportunity offered. He thought, therefore, the easiest way of attaining the object they had in view was by the whole of the Chambers of Agriculture in the kingdom, with a view of Parliament passing a measure that would regulate and make equitable and more uniform arrangements between landlord and tenant, to endeavour to get rid of and make quite obsolete much of those ancient relics of feudalism, which they knew were hoarded up amidst the dust and cobwebs of lawyers' offices, and copied into new leases whenever a change of tenancy might occur. They knew very well that there were restrictions in most of the leases and agreements existing, not only in their own district but throughout the kingdom ; and he supposed that most of them knew very well that those restrictions injured them in the successful pursuit of their occupations. Moreover, those restrictions were unjust to the community at large, inasmuch as they certainly limited the production of the necessities of life which went into the consumption of the people. They were unjust, moreover, because they closed up many sources of employment in the cultivation of the land, which would greatly increase the demand for and the value of labour. These were some of the facts of their case, and he would earnestly and most respectfully commend them to the calm consideration of every landowner—more especially would he commend them to the consideration of landowners who, in conjunction with clergymen, had of late, at various meetings and by controversy in the newspapers, spoken and written as with a fire-brand, kindling a spirit of distrust and animosity among labourers and employers in every branch of native industry. It would, in his opinion, be more worthy of those persons to become the harbingers of peace and goodwill by breaking asunder the iron yoke of oppression which many had forged and fettered upon the necks of their tenantry, and which had hindered them from discharging more liberally the obligations which they might have been thought to owe to their poorer neighbours. That would be more worthy of them than giving the influence of their position to assist revengeful and unscrupulous revellers in hurling unjust reproaches and malignant attacks upon tenant-farmers. He believed there would be no great objection by the landed proprietors of this country to a tenant-right bill founded upon something like the principles of the resolution which he had read. He did not believe it would be objected to by the landed proprietors, many of whom desired to boast, and could truly boast, of seeing around them a happy and prosperous tenantry and a contented and well-employed peasantry ; and who, moreover, could truly boast of doing all they could to give pleasure to the husbandman's toil and make the earth yield its increase in rich abundance, affording to every artizan throughout the kingdom the blessings of plenty.

Mr. J. BENNETT proposed that the resolution which the chairman had read be adopted by the Chamber. He thought it would be very beneficial to all farmers if they could have something of this kind carried out. At present there were a great many tenant farmers in the position of not knowing whether they would have any recompense or not at the end of their tenancy ; but he thought that tenant-farmers ought to know what they had to look forward to.

Mr. MARFELL seconded the resolution.

Mr. C. KEARSEY, in supporting the resolution, held it to be very desirable that tenant-farmers should know in what position they would stand, as out-going tenants, in reference to unexhausted improvements, and be compensated for those improvements. He was only a yearly tenant, and what he had put in the land he should leave there if he were to quit the farm. And there were a great many in the same position. He thought they ought to go back two or three years for

artificial manures, guano and bones, but not for superphosphate, for that, in his opinion, was but a flash in the pan; also for feeding stuffs for sheep and pigs. If they could get a better understanding as to these matters he was sure that farms would be kept in a better plight than they had been for the last three or four years. If he were going to take a farm he should like to pay the landlord more for one which had had something put into it rather than pay a lower rate for a farm which had been worked out, and which would take five or six years to get into proper condition.

Mr. DUCKHAM said there was one part of the resolution which differed from any which had been proposed at any of the previous meetings of the Chambers, and upon which nothing had been said before—that was the rotary system of cropping. They knew very well that they might plant their seeds, and that, according to the stereotyped system set forth, in the case of a failure they were restricted as to the succeeding crop. If the clover crop failed, they could not plant peas or vetches, as that would be out of the ordinary course; but they could plant turnips, which were too frequently grown and were not remunerative to the occupier. Last year many clover crops failed, not from want of skill, but from natural causes; and were the energies of the tenant-farmer not restricted, peas would very probably have been planted. That would have been beneficial to the country at large—to the consumer as well as to the producer. Freedom of action, he maintained, should be given to every man in business, whatever it might be. He did not think that the present class of tenant-farmers in this country, with the skill and intelligence which they showed should be treated as a set of bailiffs; for when a system was laid down from which they could not deviate, it placed them simply in the position of bailiffs, their capital, skill, intelligence, and scientific knowledge being completely shut up by such agreements as he had alluded to. He knew many a hard case—some had come to his knowledge recently—where a tenant, with a hope that he might be allowed that freedom of action which should belong to every man, had invested his capital, but where by restrictions the produce of the soil had been shut up and not sent to market. Such conduct, he thought, was calculated to make them go to Parliament and with a strong voice ask for

equitable Tenant-Right, and that more freedom of action should be secured to the occupier of the soil of the country. As to the latter part of the resolution, the committee felt that it should be introduced as a security to landlords against loss from bad farming, the exhaustion of land by injudicious cropping, the dilapidation of fences, and so on. He hoped they were sufficient men of business to feel that whatever was done should be done equitably. They could not expect to have one-sided legislation, but that the whole thing should be placed on a sound basis—that while tenant farmers looked for freedom of action to themselves, injury should not be done to those whom they rented under. As regarded the condition that all matters of dispute should be settled by arbitration, in order to avoid the expenses of law-suits—which would of course be ruinous to one party, and perhaps not very convenient to the other—all would agree in it. He would only add his belief that the more attention the landed proprietors of the kingdom gave to the subjects which had been introduced by Mr. Bradstock, the better it would be for them and their successors.

The CHAIRMAN said his opinion was that compensation should be given by the landlord under certain conditions. In the case of a tenant taking to a farm without any increased rental, the compensation should, he thought, be paid to the tenant; but in the case of additional rent being charged upon entering, or at any time during tenancy, then the compensation should be paid by the landlord. On a farm which he had formerly occupied he was, upon being about to leave it, told that, as he had improved the cultivation of the soil, if he could get a farmer with good capital he would be accepted. The consequence was that he was enabled to get £300 from the incoming tenant. He had now the satisfaction of holding under a lease, in which his landlady undertook to pay a certain proportion of the cost of manures for the last three years, and also to take to the offgoing crop. Some persons might, therefore, feel surprised to find him there upon such a question, as he had little to complain of.

Mr. J. BENNETT: We should have the conditions clearly defined in the agreement, so that we should know what we ought to do.

The secretary again read the resolution, and it was put by the chairman, and unanimously adopted.

TENANT-RIGHT FOR SCOTLAND.

At the recent meeting of the Scotch Chamber of Agriculture in Perth, Mr. GOODLET, Bolshan, said:

I rise to move the adoption by the meeting of the directors' report. The evils of the land-tenancy laws have been so well exposed by Mr. McNeel Caird in his masterly pamphlet, which has been widely circulated among the members, that it would be a waste of your time for me to enlarge upon them. That these laws are, in the words of the first resolution, detrimental to good husbandry, and injurious to the interests of both landlords and tenants and the welfare of the general public, cannot be denied. Laws that throw every conceivable obstacle in the way of the application of capital to the development of the resources of the soil, and that operate in so many baneful ways against the interests of the occupier, without in any (not to say commensurate) degree benefiting the landlord, cannot fail to act injuriously on the agriculture of the country; and there are not wanting indications, visible to all who have eyes to see, that a great deal of the land in this country is little better than half cultivated, and upon much of it the produce might be doubled with sufficient capital and skill employed in the cultivation. It is a very extraordinary fact that, in a country where capital can be raised for all sorts of speculative purposes, even for schemes at the uttermost ends of the earth, it cannot be attracted to the cultivation of our own soil, upon which the substantial prosperity of the country, if in a sound state, ought assuredly to rest. One would suppose from the splendid exhibitions of stock at our national and even many of our local shows, that agriculture was in a flourishing condition, and to a superficial observer such may seem to be the case; but these exhibitions, splendid as they are in some respect, afford no satisfactory evidence that it is so. I question if even one per cent. of the great body of

tenant-occupiers are exhibitors at these shows or take any deep interest in them. They may help to cover over and to throw into shade the evils under which the energies of the farmer are in a great measure thwarted and paralysed; but I am certain that, until the land-tenancy laws are put upon a sound footing, the agriculture of this country will never attain to that perfection which it is capable of, nor the land be made to yield anything like the amount of produce it is capable of doing. These laws can only be put on an equitable footing by the Legislature, for I believe it is not in the power of many landlords, even were they so disposed, efficiently to meet the requirements of modern agriculture, or remedy the evils of which we complain. From one-half to three-fourths of the land of Scotland is held under entail, the owners of which have not power to grant leases for a longer period than nineteen or twenty-one years at most. They have no security for any money they might be willing to expend on the improvement of their estates, unless by going through a host of legal forms in the Court of Session, the very expense of which is of itself enough to deter them from it; and if they should borrow money from any of the Lands Improvement Companies, the period for repayment is so limited that the burden, instead of being spread over a lengthened period of years, has mostly to be borne by the occupying tenant at a per-centage out of all proportion to his interest in the improvements, not to mention the heavy bills of lawyers involved in the operation. Nay, so hampered are the owners of entailed estates that they cannot even give off a site for a church or a school without the sanction of the Court of Session, so thoroughly are they by this law placed under the coddling care of law and lawyers. I was much struck the other day, in reading the evidence of the head of an eminent legal firm in Edinburgh before the Game-law

Committee, to see it stated by that gentleman that the rental of the estates under the management of his firm amounted to about half a million. Nothing in my opinion could more clearly show the lamentable plight into which the landed property of this country has fallen and the tremendous grip the lawyers have at length obtained over it. The Marquis of Huntly, in speaking from the chair at an agricultural society's dinner last week, alluding to the anomalous position of entailed proprietors, is reported to have said: "We are life-renters, most of us that are entailed proprietors, and it is very hard that in some way the law of the country makes a man spend his money when it does not give him any adequate return," by which I understand his lordship to mean, that, being but a life-renter on his estate, he had no adequate inducement to lay out his money in its improvement; and he went on to say (not very logically, however) that the country sustains "a grievous loss by many of the landlords being absentees, and leaving a great deal of their business to be done through their factors." No doubt there is a truth in this; but, to use an expression of his lordship's, I would say "something lies deeper," and that something is the law of entail under which he and others hold their estates, and which, by making them the ostensible but not the real owners, deprives them of the power they ought to possess; and while it so remains, his well-meant advice to landlords and tenants to meet and be frank with one another, although followed, would go but little way to cure the evils he is, I firmly believe, honestly desirous to see redressed. In support of the second resolution, I wish to show that the ordinary nineteen years' lease, as now framed, affords no adequate security to the tenant for the capital invested by him in the improvement and cultivation of the farm, and that a system of Tenant-Right is essential for his security, if farming is to advance, or even not to retrograde amongst us. About the beginning of last century the farming of Scotland was at a very low ebb, and it was then as difficult to get tenants for farms as it is now to get farms for tenants. Loudon, in his "Encyclopedia of Agriculture" (1825), speaking of that period, says, "Improvements began to be made soon after the Union, especially by some gentlemen of East Lothian, and by the efforts of the Agricultural Society established in 1723. It was (he adds) found beneficial to grant long leases, which were found greatly to increase the skill and industry of the tenants, by rendering them secure of enjoying the benefits of their improvements. The success (he goes on to say) which accompanied the introduction of long leases, served to convince almost the whole landlords of Scotland that the surest way of extending improvements was to give the tenantry an interest in their accomplishment, and proprietors in general were so sensible of the benefit of that tenure that few of them refused to grant it." Cockburn, of Ormiston, was among the first to grant these long leases, and his example was soon followed by many proprietors in all parts of Scotland. The Ormiston leases were for 33 years, renewable every 19 years on payment of an additional year's rent; others were granted for two nineteens and a lifetime, without the power of renewal. I hold in my hand a lease granted to my great-grandfather in 1758 of a small place near Kierriemuir for 97 years, the conditions of which are few and simple, but among them was one which would not now be admitted into a modern lease, namely, that he should have the power to remove the buildings erected by him or be paid value for them at the expiry of the lease. He was also entitled to half the value of any trees he might plant. Such leases were then not uncommon in Forfarshire. On the Panmure estates the old life-renters are only now dying out, and a few here and there still exist throughout the country. Here, then, we see that leases granted in the first half of the last century did afford the requisite security to the tenant for his improvements. By degrees, however, and towards the end of the century, the lease came to be shortened in its duration to 19 or 21 years, and also made more stringent in its clauses. Sir John Sinclair, in his account of the husbandry of Scotland (1814), gives an account of the lease then commonly adopted, in which many of the clauses now in the modern lease are to be found. He complains of the covenants in leases being in general too complicated and too numerous. Such restrictions, he says, are great impediments to improvement. No person, he held, should frame a lease but one who thoroughly understood the business of farming. In East Lothian itself he calculated that a year's rent on an ave-

rage was lost in the course of every lease by the injudicious manner in which leases were drawn up, and he did not doubt but that the rest of the kingdom laboured under the same disadvantage. If such was the case when Sir John wrote his book, how much more is it so now, when our leases are almost all framed by professional lawyers, whose ignorance for the most part of practical agriculture leads them to build up clause upon clause, protective, as they suppose, of the interests of their clients, but which are too often prejudicial to their true interests, and are always subversive of that confidence which should ever subsist between landlord and tenant; and so the lease, which at one time was a protection to the tenant, has in these last days become to him a trap and a snare, and that through the numerous reservations, obligations, restrictions, and provisions, cropping clauses, penal clauses, and other bindings and obligings with which it bristles at all points, and by which the powers of the tenant are so circumscribed and hedged in that his freedom of action is well nigh gone, and the lease itself fashioned into an instrument by means of which the greatest injustice and oppression may, at the will of the landlord, be inflicted upon him. Now, it is in some measure to obviate this state of things, and, if possible, to raise practical agriculture out of the slough into which it has fallen, that a revision and reform of the land-laws have become a necessity; and in order, moreover, to afford security to the tenant for the capital necessarily invested by him in the cultivation of the soil and in effecting such improvements as in the progress of agriculture fall to be executed by him, that Tenant-Right in the terms of the resolution I am speaking to is demanded. Lincolnshire is perhaps the only county in England in which Tenant-Right has obtained an established footing. If you will allow me, I should like to show how it came to be introduced into that county, and of what benefit it has been to all connected with land in Lincolnshire, although the tenants there are without leases—their holdings being from year to year. I cannot bring out this better than by reading to you one or two extracts from Shaw and Corbet's digest of the evidence taken before a Committee of the House of Commons appointed to inquire into the agricultural customs of England and Wales in 1848, commonly known as Mr. Pusey's Committee. But before doing so, I may mention that Lincolnshire, with the exception of the low-lying rich grazing lands originally reclaimed from the sea by extensive embankments, consists for the most part of what are called fens, wolds or chalk hills, peat, and heath lands, naturally inferior soils, and held, before improvements, at very low rents. About the year 1812, the Lincolnshire farmers made the discovery that, by chalking the wolds and claying the fens and peat lands, found underlying the surface soil, it worked like a charm in improving its fertility, and from that time down to 1826, when other parts of the kingdom were suffering from the wide-spread ruin inflicted by the fall of prices at the close of the French war, the Lincolnshire farmers were by their improvements prospering in an unheard-of degree. Their prosperity did not long escape the eye of their landlords, and towards the end of this period rents began to be raised, in some instances even doubled. It was then the farmers stood out for what they called protection, and, as you will see from what I am going to read to you, succeeded in establishing the custom of Tenant-Right, which now, I may say, universally prevails in that county; but only there, for in other parts of England it has been but partially introduced, and in some parts not at all. Indeed, had it not been for the ruin which overtook the farming interest in general at that time, it is questionable if the Lincolnshire farmers would have been able to secure for themselves those protecting covenants which led to the introduction of Tenant-Right. Loudon, describing the period, says—"Since the peace of 1815, agriculture had sustained a severe shock from the fall of prices. In this shock many hundreds of farmers lost all their capital, and were obliged to become operatives to others; while some, more fortunate, contrived to retain as much of the wreck of their property as enabled them to emigrate to other countries. The replies sent to the Circular of the Board of Agriculture regarding the agricultural state of the kingdom in February, March, and April, 1819, furnished a body of evidence which cannot be controverted, and exhibit a picture of widely-spread ruin among the agricultural classes and of distress among all that immediately depend upon them to which there is probably no parallel." Yet it was during this period of agricultural distress that the im-

improvements effected by the Lincolnshire tenants in chalking and liming, and by their extensive use of extra feeding stuffs and manures, enabled their landlords to exact from them increased rents, and themselves to secure, as a condition of compliance, those protective covenants which have been the means of advancing the agriculture of that county far above that of any other part of England, or even of Scotland. Mr. Goodlet here read extracts of evidence before Mr. Pusey's Committee, and continued: You see, from this evidence, that Tenant-Right had not obtained a footing in Lincolnshire for many years after the improvements commenced, and that a hard fight had to be made for it before it became general; but we can easily see how it was brought about. Landlords, seeing the farmers prospering by their improvements, and the land rapidly increasing in letting value, insisted on raising the rents, but the farmers would only agree to this on getting covenants to protect them. They did not ask for a lease of years, but only "Tenant-Right" if ejected from their holdings. Mr. Hessel-tine's evidence is most interesting and instructive on this

point; his rent was doubled in 1826, but then he secured the protective covenants. This is exactly what is wanted under any circumstances, whether holding from year to year or under a nineteen years' lease. Where cake and extra feeding stuffs are largely used, and where the lands are deeply cultivated and maintained in high condition by rich manuring, and where buildings or other permanent improvements necessary for the profitable and economical occupation of the farm have to be executed by the tenant at his own cost, he can have no security for the heavy expenditure thereby occasioned unless by a recognised system of Tenant-Right or by covenant. And when it is seen how much Lincolnshire has profited by the system of Tenant-Right, which the peculiar nature of their soil and the circumstances in which they stood enabled the farmers there to obtain; and that it has not only been of benefit to them but also to their landlords, is it too much to expect that a system which has been found to work so well should receive the sanction of the Legislature and be established as a legal right throughout the kingdom?

THE GEOLOGIST IN SUSSEX.

At the meeting of the British Association at Brighton, Mr. JAMES HOWELL read the following paper, "On the Super-cretaceous Formation in the neighbourhood of Brighton."

The late excavations made for the purpose of draining the town of Brighton having revealed a few facts in connection with the beds overlying the chalk, I take the present opportunity of bringing them before this meeting, trusting they may elicit discussion and be the means thereby of casting a mite or two of knowledge into the national treasury. The geological formations upon which the town of Brighton stands, though often considered to be but one (the cretaceous), are, nevertheless, six in number. We have—

I.—Chalk, with flints, upon the crests of the hills and their abrupt descents.

II.—Plastic clay, lower eocene, constituting Furze-hill.

III.—Temple field deposit, formed of the wrecks of the eocene and chalk strata. In the Montpellier district, sloping down the western hill towards the tertiary outlayer at Furze-hill and Hove levels.

IV.—Post pliocene, Brighton cliff formation, Coombe rock or elephant bed, chiefly east Brighton, especially the cliffs at Black Rock, also the base of the slit in the Brighton valley.

V.—Post pliocene, brick earth, resting on Coombe rock or sand, western Brighton and Hove.

VI.—Recent. Silt of the Brighton valley.

The cretaceous formation has been so ably explored and so graphically described by Dr. Mantell and others, that we at once pass to an interesting outlayer of the tertiary, which denudation has left us. The late and deeply-lamented Sir Roderick Murchison, to whom geological science owes so much, in his paper on "The Flint Drift of the South East of England," mentions a visit he paid to Furze-hill in 1850, when an excavation had been made for the purpose of obtaining the clay for brickmaking, exposing a section of some twenty feet in thickness, consisting of mottled plastic clay, with courses of black bituminous earth, in parts a lignite, containing yellow decomposing iron-pyrites, which give origin to a mineral water of the same acid taste as that of Alum Bay, in the Isle of Wight, and there is little doubt that the adjacent saline chalybeate of Wick owes its chief properties to the same stratum. Sir Roderick, however, failed to discover shells in this deposit. Many years prior to Sir Roderick's visit, excavations in this neighbourhood revealed a thick bed of lignite similar to the Surturbrand, so plentifully strewn upon the Brighton Beach, when its cliffs were exposed to the action of the sea, and which, like the lignite of the Wealden sands, raised in the minds of the inhabitants bright prospects that coal would eventually be discovered. A deeper excavation was made in the year 1851, which the late Mr. Montague Phillips carefully examined, and he tells us that "Furze Hill, so far as I have been able to explore it, consists of distinct layers of marl and clay. The upper surface is composed in some parts of a shell marl, of marine shells very much comminuted; a bed of reddish

clay then succeeds; this is followed by a bed of stiff white clay from three to four feet thick; this white clay then gradually becomes blue and black, assuming the appearance of shale; immediately below this is a bed of lignite four feet in thickness, which I have traced from south to north, 1,370 feet. It likewise extends from east to west under the whole hill, it dips towards the south-west, and no doubt is connected, or was formerly connected, with the similar beds at Newhaven and Bognor. Below the lignite the clays, blue and white, occur again. In 1851 I found a few faint impressions of dicotyledonous trees, and have this Christmas been fortunate enough to discover a cluster of fossil fruits of an unknown species. It was a kind of nut intermediate between the walnut and the Brazil nut. The Furze-hill deposit crops out where the Lovers' Walk commences on the way to Preston. Here a new road having been cut through the strata, I was fortunate enough to discover a thin layer of aluminate, the sub-sulphate of alumina, the only known locality of which hitherto has been the cliffs at Newhaven. In addition to this mineral, I have discovered numerous large crystals of selenite or sulphate of lime in the clay of Furze-hill. All these facts put together prove beyond a doubt that Furze-hill belongs to the plastic clay formation." Since Mr. Phillips communicated the result of his investigations to Mrs. Merrifield's "Natural History of Brighton," little or nothing has been done towards the examination of these beds. Should, however, the eastern portion of the bill become a building site, a thorough knowledge of those interesting strata will be the result. The soil upon the South-downs is generally but a few inches thick, yet from the fact that there are patches of rich loam several feet in thickness interspersed with a few tertiary pebbles upon Seaford heights, Castle Hill, Newhaven, Chanctonbury, Cissbury, and many other places, besides grey wethers or Druid sandstones, scattered, over the surface in every direction, we are reasonably led to conclude that sub-aërial and aqueous action have stripped these grand old hills of the rich tertiary clays that once reposed upon them. The next deposit, fine sections of which were exposed in the excavations made in the Temple Field or Montpellier district in the summer of 1870 will sufficiently prove this fact.

TEMPLE FIELD DEPOSIT.—The Temple Field, named from the Temple School standing upon this site, was during my first recollections arable land with a hedge at its eastern extremity running parallel with a path leading over the hill, and through Lovers' Walk to Preston. Within this field lay some fine boulders of Druid sandstone, and which, with others then lying in a field nearer the Old Church, now form the base of the Victoria fountain upon the Steyne. In our strolls over the Downs we behold immense blocks of these water-worn stones lying about in every direction upon their crests by the hill-sides and in the valleys, as landmarks in the fields and by the roadside. Many of them consist of sand, and are almost identical with some of the Wealden sandstones. Others are a conglomerate of pebbles, angular flints, indurated clays, sand,

and iron; the latter being the cementing power. These relics of the oldest tertiary world were venerated from time immemorial by our ancestors, who, "from their sacred character," says Mantell, "used them as landmarks to denote the boundaries of their towns and villages, to commemorate the site of their battles, to perpetuate the memories of their chiefs, and for altars on which to sacrifice to their gods." Stonehenge, that time-puzzle to the archaeologists, is chiefly constructed of them. Probably some idea of these stones being the relics of a past world might have struck the rude forefathers of our race, and caused them to regard them as holy. Or did the Greek tradition, of the human race springing from drift stones after the flood, form the belief of the Palæolithic people? Be that as it may, this is quite certain, that there was a faint light glimmering through the mist of ages, a dreamy remembrance of the last world's Flood among the primitive inhabitants of the earth, which they recorded, and have handed down even to our times. The universality of this idea is sufficient proof that man was in existence previous to the earth's last great physical change, and these traditions are corroborated by the discovery of his remains in the drift and in caverns of the earth, in conjunction with the bones of the mammoth, woolly rhinoceros, the cave lion, hyena, and bear. When man first trod the surface of the present world covered with stones, he formed some into circular temples or used them as altars, or pillows for his head, and converted others into implements of offence and defence, or for domestic use. Need we wonder then that our ancestors of the pre-historic period regarded stones with awe and wonder? The water-worn conglomerates scattered everywhere about the Downs, whence came they? Let us see. At the base of the tertiary strata at Newhaven, with one bed intervening between it and the chalk, of which more anon, lies a hard conglomerate of the thickness of a foot, consisting of shattered flints, pebbles, and sand, strongly impregnated with iron, and at the opposite end of the bay, at the commencement of the chalk cliffs at Seaford, lying under a thick bed of sand, belonging to the Woolwich series the same conglomerate attains a thickness of four feet. Probably the formation of this curious deposit took place in a shallow sea upon the cretaceous strata, covered with shattered flints, mingled with pebbles and sand, and clay and iron-stone, the latter cementing the heterogeneous mass into the hard conglomerate known as breccia or pudding stone, at the period when the cretaceous strata were gradually sinking beneath the sea to receive the sands and clays of the lower eocene. Something akin to this came under my observation last summer, near Bembridge Point, Isle of Wight, where water charged with carbonate of iron oozing out of the eocene cliff, capped by a Pleistocene deposit, flowed seaward over a sparse beach, resting upon sand, which, in one or two places, it had welded together into a conglomerate or pudding stone, evidently increasing in size day by day, and which I watched with intense interest. Now having seen this curious conglomerate scattered over the surface of the Downs, and lying *in situ* at the base of the tertiaries at Seaford and Newhaven, let us turn our attention to the Temple Field, now covered with handsome edifices, viz., Denmark-terrace, St. Michael's-place, Powis-road, Victoria-road, Clifton-hill, part of Clifton-road, Montpellier-crescent, and Vernon-terrace. The same deposit can also be traced on through Cobden-road to Stanford-road, Prestonville, the latter being the site mentioned by Mr. Montague Phillips, when he says "the Furze-hill deposit crops out where the Lovers' Walk commences, on the way to Preston." Thus it will at once be perceived that the Temple Field lies at the eastern extremity of the Hampshire or eocene basin, extending from Dorsetshire to Brighton, Church-hill forming its eastern rim, whose summit, with few exceptions, together with its southern and eastern declivities, consist of chalk with flints; while the Temple Field deposit extends down its western and northern slopes, and in some places penetrates to its usual depths 16½ feet on the crests of the hill in the form of a wedge with its apex downwards, into the very core of the chalk, giving one the idea that the latter had been scooped out, and this deposit washed into the hollow. These wedge-formed hollows in the chalk were met with during the excavations in several places, the most noted being at the intersection of Powis-villas and Powis-grove-roads, and on the crests of the Western Hill immediately opposite the site where the Black Mill stood, another was met with in excavating the foundation for the tower of All Saints' Church, which proved a very costly affair. Now upon this

verge of the Hampshire Basin a geologist might expect to find the wrecks of the lower eocene strata, and in the Hove level below it their rich loams converted into brick-earth, succeeded by sand reposing upon chalk, and such have our investigations proved to be the fact. The various members of this deposit vary considerably in different places as regards thickness. The following section was displayed at the bottom of Clifton-hill, near its junction with Montpellier-road, also in the latter road immediately opposite No. 4, Vernon-terrace, the principal members being clay in the latter and breccia in the former.

I.—Road	2 to 3 feet.
II.—Rich brown, dark grey or ochraceous loam, shivered flints, and seams of land	3 feet.
III.—Clay or brick-earth	4 to 6 feet.
IV.—Breccia and ironstone, with clay, chalk, rubble, rotten flints, sub-sulphate and hydrate of alumina, succeeded by ochraceous loam containing brecciated masses of indurated clays, gypsum and flints spangled with crystals of selenite, curious stone formation, with a metallic ring containing dark seams of selenite, somewhat resembling veined marble and ferruginous chalk-rubble	7 to 8 feet.
V.—Chalk with flints, the upper portion iron-stained, from	3 to 4 feet.

A few remarks upon the various members of this deposit may not be considered irrelevant. (1) The soil is very superficial, having been removed to form the road, which is constructed upon artificial layers of chalk, which have a curious appearance, lying as they do above instead of under the loam, the latter reaching in some places to the depth of several feet. It is generally of either a chocolate or ochraceous colour, but in Montpellier-crescent assumes that of a dark grey, containing immense quantities of shivered flints. At first sight I thought I had hit upon a manufactory for flint implements, but closer observation convinced me that neither Neolithic man nor Flint Jack, but Nature was their fashioner; but when or how are beyond my comprehension. Here and there in this deposit, but more especially in Clifton-road, the workmen discovered thin seams of silver sand, specimens of which are preserved in our town Museum. This sand, a remnant of the eocene, had probably been bleached by water percolating through it charged with acids derived from the vegetable soil. Both the chocolate and buff-coloured loam contain rotten granules resembling chalk, which on being subject to atmospheric action crumble into a fine ochraceous powder. Is it, in fact, a variety of brick-earth that has lost its hydrogen? Iron, without doubt, has played an important part in its formation. The vegetable soil and decomposing iron pyrites form sulphuric acid, which, percolating into the chalk, converts it into gypsum. May not, therefore, this deposit in many places be a gypsaceous marl, which, coming in contact with the atmosphere, imbibes carbonic acid, which drives out the gypsum, and reconverts it into its original substance? When digging the foundation of the Congregational Church at the corner of Clifton and Dyke-roads, the workmen laid bare a fine section of this deposit, and the chalk beneath it. Lying in the loam was a brecciated mass of ironstone, and a rich vegetable soil above it, whilst immediately beneath it was a vein of what appeared to be hydrate of alumina descending through the hard chalk to the very base of the foundation, and probably beyond it, but though the eye could not detect the difference, chemical analysis might prove the substance to be lime, for it looked as if a stream of water, percolating through the soil and ironstone, had deprived the chalk of its carbonic acid. There are specimens of this water-work everywhere throughout the deposit, leaving relics of its progress down into the very core of the chalk. (3) Clay or brick-earth of a reddish brown colour, and extremely plastic, mixed with minute granules of chalk and flint. According to the esteemed President of this Section, Mr. Godwin-Austen, brick-earth owes its origin to sub-aerial action, its most usual character being that of the wash of a terrestrial surface under a far greater amount of annual rainfall than we have at present. It is a curious fact that this deposit should be several feet in thickness down the western slope of the hill, but scarcely anywhere down the eastern slope, into the Brighton valley, where Coombe rock takes its place. Whether this Temple Field clay, however, is a real brick-earth, I have my doubts. I imagine it to be a much older formation than that lying in the Hove Level. I extracted several lumps in its plastic state

lying at the depth of ten feet beneath the surface, rolling them into balls, and which, having lost their hydrogen, are now scarcely distinguishable from the lower portion of the superincumbent loam. (4) This is a confused mass of chalk-rubble, clay, ironstone, breccia, sub-sulphate and hydrate of alumina, rotten flints, gypsum, brecciated masses of indurated clay and flints spangled with crystals of selenite, ferruginous chalk-rubble, with beds of ochraceous loam, descending in wedge-like hollows of the chalk, &c. At the bottom of Clifton-hill, near its junction with Montpellier-road, the breccia lay in immense quantities. Some idea of this may be realized from the fact that from Montpellier-road to St. Michael's-place the breccia extracted from excavations two feet six inches in width lay piled up like a wall to the height of five feet. Much of it seemed to have undergone intense chemical action, so as scarcely to be distinguished from "slag." This occurred in masses weighing several hundred-weight dug up at a depth of 15 feet from the surface. The breccia was composed of angular and rolled flints, indurated clay and sand, cemented by iron, and resembling in character the stratum lying *in situ* at Seaford. The whole of it was purely a conglomerate, for not a single sandstone was found in this locality throughout the excavations. This breccia or pudding stone, the remnants of the foundation of the eocene, is by many confounded with the grey wethers or Druid sandstone, possibly derived from the Wealden strata, probably from the Bagshot sands. The ironstone containing a large percentage of that useful metal was scattered confusedly everywhere about the deposit except at the north-east extremity of Montpellier-crescent where the excavations reached 28 feet, for here, at the depth of 11 feet, occurred a vein of ironstone from 10 to 12 inches thick, of which I procured specimens, as I consider it to be playing a most important part in the decomposition of the Brighton chalk.

SUB-SULPHATE AND HYDRATE OF ALUMINA.—Half a century has passed by since Mantell discovered among some gravel lying on a wharf at Lewes a curious mineral, and one which was a stranger to him. The gravel in which he found it was brought from Newhaven. A few months afterwards, as Mr. Webster was rambling along the Sussex-coast, he collected a specimen of this mineral at Newhaven, which, upon being analysed by Dr. Wolaston, was found to consist of alumina, in combination with sulphuric acid, and a small proportion of silex, lime, and oxide of iron." By many it is called Websterite, deriving its name, like America, from the second, and not from the first discoverer. It occurs in the last tertiary layer in Newhaven cliff, viz., ochraceous clay associated with gypsum, resting upon the chalk, the superincumbent bed being breccia impregnated with iron. Up to 1851, Newhaven and Halle, in Prussia, were the only localities in which it had been discovered, in which year, as previously stated, Mr. Montague Phillips found a thin seam of it in relics of eocene strata on the site of Stanford Villa, Prestonville. From this period to 1870 it was discovered in two or three localities in France, and was considered of rare occurrence. But the fact is that if people would only open their eyes and look for it, they would find it plentifully distributed about the chalk districts wherever clay, pyrites, or ironstone are superimposed upon the cretaceous strata. As Mantell happened to find it at the base of the lower tertiary, he very naturally concluded it to be a member of that series, but in many cases it is found not even associated with a single member of those strata, deeply imbedded in the very core of the chalk. In the summer of 1870 I received a visit from a friend, Mr. Spencer G. Perceval, who held in his hand a piece of this snow-white mineral with which I had been familiar from the days of my boyhood, though ignorant of its real nature. This specimen he had obtained from an excavation opposite No. 4, Vernon-terrace, made for the purpose of draining the town. Becoming interested in Mr. Perceval's glowing description of the curious deposit there found, and which I had noticed described and named as the Temple Field deposit in the *Brighton Herald* some months previously, when tons of breccia had been dug up in sinking the foundations of the houses in St. Michael's-place, I immediately accompanied him to the spot, descended the excavations, and walked along the tunnel some hundreds of yards, minutely examining the wondrous deposit around us. Promiscuously blended in dire confusion were slag and ironstone, breccia and gypsum, broken flints and masses of aluminate, as if the glacial plough had rooted them up and the glacial-crusher passed over them, for the very foundations of the tertiary world were turned topsy-

turvy, and mingled with the wrecks of the uppermost bed of the chalk. There were different varieties of aluminite in the deposit, milk-white and very friable, straw-coloured, hard, soft, heavy, and light, and one pretty specimen picked out of the clay in Clifton-road with a straw-coloured coating, having the appearance of allophane. Horizontal seams of the white variety had penetrated through the flints, which, when touched, crumbled into fragments. A beautiful compact variety was found in Clifton-road, having the appearance of old ivory, in the centre of which was what appeared to be a dark shining flint. That scientific enchanter, manganese, had no doubt been trying his glamour to produce this deception. But the most singular specimen of this mineral was found almost upon the surface of the chalk about one foot beneath the road in Powis-villas, being moulded like the trunk of a tree, the bark or coating resembling lignite. Mr. Perceval, in his article "On the occurrence of Websterite at Brighton," thus describes it: "The general appearance of the mineral was highly suggestive of a vegetable origin. Pieces with the rind attached, and having a fibrous structure, much resembled portions in a gigantic cocconut. Two specimens were obtained from the same place, which have been secured for the Brighton Museum, which were mistaken for the stems of fossil trees, being in the form of a trunk, and described by Mr. J. Howell, of Brighton, as 'six inches in diameter, the bark changed into lignite, and medullary rays diverging from the centre. The substance on the exterior of the specimens, which so much resembled lignite, has been examined by Dr. Flight, of the British Museum, and has been found to consist of manganese with a certain proportion of cobalt." The specimens alluded to were portions broken from what had every appearance of being the fossilized trunk of a small tree, several feet in length! That scientific conjuror manganese mystified and deceived me, as it has once done since, in delineating foliage upon a Wealden sandstone. Vegetation and crystallization have a closer relationship than many of us deem. Sub-sulphate of alumina is not, as it is supposed to be, a scarce mineral. In the railway-cutting leading to Hove it may be seen in every direction lying immediately below ironstone, embedded in clay resting upon chalk, and so throughout the chalk in and around Brighton. Some of it may be older than the London clay, yet, like everything issuing from Nature's wonderful laboratory, its formation has been going-on from that ancient period up to the present time, impressing upon us this reflection, What has been "is now, and ever shall be." Did we not know that Science has only just begun to use her eyes, we might wonder why so comparatively common a mineral had not been discovered centuries ago. But the fact is, man sees but does not observe; and here is a proof of it. The late Mr. Montague Phillips and myself have often conversed together by the chalk pit upon the incline leading into Goldstone Bottom, and yet that very pit contained cart-loads of this mineral; and it was only twelve months since that my attention was directed to it by a pupil, who knew the substance from seeing it lying on my mantel-shelf, telling me there were immense masses of it in this very chalk pit. A description of this discovery written by me appeared in the *Brighton Herald*, June 20th, 1871: "Upon visiting this spot, I found it, as usual, associated with iron and clay. Rain-water, charged with sulphuric acid and iron, has percolated through these beds, staining the chalk, and thereby revealing its sinuous courses through it. The massive variety of Websterite, or more probably hydrate of alumina, is enveloped and intersected by these sinuous streams, but seldom the stem-like variety. An immense mass of the former bulges out of the chalk stratum, and measures vertically 6ft. 6in., and horizontally at the base 7ft. This is traversed in every direction by veins of a soot-like substance, probably manganese, decomposed by sub-aerial action. Over these lies a friable layer of yellow chalk, undergoing the process of formation into gypsum, and which, on the application of sulphuric acid, slightly effervesces. Resting upon this is a mass of ironstone and iron clay oxydized to its very core, and this is overlaid by chalk-rubble and vegetable mould. The stem-like variety, beautiful specimens of which are preserved in our Museum, and whose coating of manganese and cobalt so much resembles bark, is well represented in this pit. Some of these might be mistaken for petrified trees! They average from 2½ to eight inches in diameter, and are of circular, oval, or irregular form. One, 2ft. 8in. long and 11in. broad, resembles a rudder, with two bands of iron-clay running across it, and lies vertically in the chalk." Every

variety of the mineral was represented in this pit, and more especially the tree-like variety. Most of this lay in the very heart of the chalk. One small specimen I extracted from its matrix, in which it lay as in a mould, the chalk revealing no sign of decomposition. Many of these specimens showed no signs of the presence of either clay or percolations of water charged with acids in their vicinity. Being thus isolated from these substances, the question is, How were they formed? In the same state of isolation, deep down into the chalk, and running parallel with it, were veins of aluminite and clay, and the problem to solve is, How got the clay there? Perhaps by a process quite as simple as the apple got into the dumpling which so puzzled scientific royalty! In flints there is a small percentage of clay and iron. Does sulphuric acid, formed from vegetable matter in the soil or decomposing iron pyrites, percolating through the chalk, transform this clay into sub-sulphate and hydrate of alumina, or is there enough clay in the chalk itself to form these substances? If so, the process would account for the shattered condition of the flints. Probably what Mr. Morris mentions in his notice of Allophane, may also apply to these flints. That, having been crushed, the aluminite recemented them. When aluminite is imbedded in clay, chemistry clearly reveals its origin; but when, on the other hand, it lies isolated in the chalk where there are no faults or fissures to account for its presence, then its formation is a difficult problem to solve. Since this was written the alumina alluded to in the Goldstone Bottom chalk-pit has been removed, and the pit now displays a fine section of the cretaceous strata.

IRON ORE, CHALK, AND GYPSUM.—Much of the iron ore throughout this deposit is in a state of decomposition very friable, and of a cindery appearance. Some of the heaviest masses of this ore are punctured with holes filled with a fine ochraceous powder, probably an oxide of iron, which gives to the whole heterogeneous mass its ferruginous appearance, and plays the most important part in the decomposition of the chalk strata. In every locality where this peculiar Temple Field deposit lies, the fissures or holes in the chalk seem to have been caused by the decomposition of the chalk itself, water charged with acids and carbonate of iron being the prime agents of the disease. The same idea seems also to have occurred to Mr. Perceval, when he says, "The deposit of Websterite is about three feet wide at its junction with the overlying ferruginous mass, narrowing as it descends, apparently occupying a fissure in the chalk, which has at some time been filled with clay, or has been formed by some decomposing action on the chalk." To me not a single hole had the appearance of having been scooped out and then filled with clay, but in every case was the result of the latter process. One of these holes was met with in digging the foundations of All Saints' Church, and proved a very costly affair. Nor do I believe after all the money spent upon it that the foundation is secure. So long as the agents of this chalk disease are present above the chalk, the disease will gradually eat into its core, and render any building resting upon it unstable. It is like cancer in the human system, for which, if not wholly rooted out, there is no cure. But in another respect it is a blessing, metamorphosing as it does the barren chalk into a fertilising soil, and thus giving to the inhabitants of the Downs what they so ardently long for, a few trees with their grateful shadow. Wherever this deposit presents itself, there trees take root and flourish, as in the Montpellier district, and the copse on the Dyke-road, &c. One of the largest holes in the chalk filled with this deposit was cut through in Montpellier-road, opposite the north-east extremity of the Crescent. Eleven feet beneath the surface lay the vein of ironstone already alluded to in an ochraceous mould, light and dry as the finest dust, probably an oxide of iron, which descended in the form of a wedge to the bottom of the excavations 26 feet, and no doubt much deeper. Within it lay several masses of curious formation having the appearance of blocks of chalk converted by chemical action into a stone containing iron gypsum, and dark green crystals of selenite in horizontal seams, giving to it the resemblance of veined marble. One large mass contained three casts of *Inoceramus* shells, showing that the substance must have originally been chalk. This specimen I strongly recommended to be preserved in the town Museum, and for that purpose saw it conveyed into the Engineer's office; but I have been unable to find it since, and fear it was either lost

or broken in its transit from the office to the Pavilion. The dark-grey colour and the dark seams of selenite may be owing to the presence of bitumen, an organic substance, revealing, says Bischoff, another fact in the wonderful laboratory of Nature. The roots of the trees in the garden of Montpellier-crescent had ramified the loam in every direction; but not one of them had penetrated into the chalk. Much of the ferruginous breccia had a cindery appearance. Other specimens resembled honeycomb, suggesting the idea of water charged with acids, dripping upon and eating into it. The cores of other specimens of gypsum or indurated clay with crystals of selenite seemed eaten out, probably by this water action. Crystals of calcite filled the interior in some of the ironstone breccia, while limonite was plentifully represented throughout the whole deposit. Some specimens seem to have undergone intense chemical action, as if the substance of which they were composed had bubbled up, and the gas escaped, leaving innumerable orifices upon the surface coated with a sooty substance, or tinged of a yellow green and violet hue, the unbroken bubbles being botryoidal. Pretty silver-like crystals adorned the smooth surface of the flints, sometimes assuming the frosted appearance seen upon our window-panes. Other specimens sparkled as if diamond-dust had been scattered over them. Some of the crystals were flat and broad, some needle-shaped, others filled the interstices of the gypsum and indurated clay with cobweb forms.

FERRUGINOUS TABULATED FLINT.—At the junction of Clifton and Dyke roads were found masses of ferruginous flint, flat and coated with a covering of chalk, giving one the idea of a stream of silica and iron becoming solidified at the bottom of the cretaceous sea. It had every appearance of a silicate of iron. Chemical analysis proves that silica is soluble in water, and that it has an affinity for organic substances into whose composition it enters. That the process is a simple one there is little doubt, but in these tabulated masses I was unable to detect any organisms to attract and precipitate the silica held in solution by the water. What hidden cause effected this end? Did the infusoria create these tabulated ferruginous masses of silica? The presence of silica in bog iron ore, and the incombustible organic structure of the very small corpuscles which form the surrounding ochre, make it, as Ehrenburg remarks, "very probable that here also an organic relation by infusorial formation comes into play, so that these animalcules after their death form a nucleus towards which the dissolved iron immediately around is attracted." Specimens of this yellow deposit were examined microscopically by Mr. Woulton, Hon. Sec. to the Brighton and Sussex Natural History Society, who could discover no trace of Gailionella, or the least signs of any organisms. There are many facts which prove the solubility of silica in water. Reeds and rushes thrive luxuriantly in ditches plentifully supplied with fresh streams of water. If silica is only soluble at a very high temperature, how is it derived by the stalks of corn and grasses from the flinty soil of our Downs? Nature has a more simple process in her wondrous laboratory to effect this than we have. Liebig tells us that, after the destruction of a hayrick by lightning in a meadow between Mannheim and Heidelberg, there was found upon the spot where it stood a glassy mass, consisting of a silicate of potash. "If (says Bischoff) the silica, instead of being introduced into hay or straw, were deposited as a quartz layer, it would in 78,705 years acquire a thickness of one foot, and the formation of the most enormous quartz layers may be accounted for in this way." Thermal springs are not the only source whence siliceous comes. There is a simpler method than this, and which questioning Nature will only reveal.

GYPSUM: ITS ORIGIN.—These excavations through the Temple Field clearly reveal one fact, viz., that the heterogeneous mass there confusedly mingled was derived from the beds of plastic clay, once *in situ* in that locality. And not only there, but upon the highest summits of our Downs, where the loam lies still several feet in thickness. The denudation of the older eocene, whose strata form this deposit, must have been by the waves of the sea, the tumultuous rush of mighty waters, or the glacial plough, for the breccia which lay upon the chalk in compact beds several feet in thickness has been torn up, hurled over the surface of the Downs, or roughly mingled with the soil, loam, clay, and chalk-rubble, as witnessed in the formation we have feebly attempted to describe. The ruin is so complete, or the deposit is of such chemical origin, that not a single fossil has been found imbedded in it.

Even the lignite of the plastic clay has entirely disappeared, unless traces of it are still visible in the coaly variety of the indurated clay, breccia, and gypsum. Mention has been made that the curiously-formed substance, having a metallic ring, bore distinct impressions of shells of the cretaceous epoch. How then was the chalk, for chalk it must have been, converted into gypsum? What is the origin of gypsum and crystals of selenite, chalk being a carbonate and gypsum a sulphate of lime? As infiltrations of carbonate of lime convert sand into sandstones, and chalk corals and shells into limestones, so will infiltrations of sulphuric acid convert chalk into gypsum. Wherever water, then, percolates, holding sulphate of lime in solution, there must be gypsum; and should the water evaporate, leaving a gas, sulphuretted hydrogen, then, wherever that gas penetrates, be it in clay or sand, in breccia, gypsum, shells, or flints, there will be crystals of selenite. Bischoff, in his "Elements of Chemical and Physical Geology," says: "The formation of gypsum from limestone in the neighbourhood of exhalations of sulphuretted hydrogen is a very common phenomenon. Breislak brings forward many examples of such a formation from sulphur springs. In 1823 Cornelli found very curious crystals of gypsum and sulphur in the crater of Vesuvius, originating from the fumaroles. Dumas has shown that even the most minute traces of sulphuretted hydrogen convert

limestone into gypsum. He found no free acid in the fumaroles of Tuscany, and yet the carbonate of lime in their neighbourhood was rapidly converted into gypsum, which could only be owing to a minute quantity of sulphuretted hydrogen in these vapours. He observed a similar phenomenon in the sulphur baths at Aix. The limestone walls of the saloons and bath-rooms blister and become covered with crystals of gypsum." Need we wonder, after this, at the production of sub-sulphate and hydrate of alumina, gypsum, and crystals of selenite, in the Temple Field deposit? Nature works by simple laws, and the results are truly wonderful. A great portion of the soil owes its origin to decomposed vegetable and animal organisms and iron pyrites. In this soil, therefore, is sulphuric acid, which is conveyed by rain-water down to the clay, ironstone, and chalk, through which it percolates and metamorphoses from clay into sub-sulphate and hydrate of alumina, and from carbonate of lime to sulphate of lime, or gypsum and crystals of selenite. In the clay and chalk-rubble lie breccia and ironstone, spangled by the union of sulphuric acid and lime with crystals of every variety, form, and colour. Such are the characteristics, and such is the origin of this Temple Field deposit, lying from 160 to 225 feet above the mean tide level of the sea, which rises and falls upon this coast 20 feet.

THE OLD AND NEW STYLE.

"Well Oldsort, what do you think of this movement amongst the labourers?" asked his landlord one day of a West-Midland farmer.

"I don't know what to think, I don't," answered Oldsort.

"How many men do you employ?"

"Why, four regular. But I'll tell you what; I and that Edward Sharpe there, can do as much work in a day as I and all those other three, Tom Careless, Jack Shirk, and William Slow."

"How's that?"

"Why, you see, if I tell Sharpe to do a thing, it's done well and quickly, and I need never think about it again. But if I tell any of the others, I've almost got to do it myself, or it will be done wrong."

"And what are they earning?"

"Why, twelve shillings a week all round, besides allowances and privileges. But Sharpe would be cheap at three shillings a week more."

"And the others?"

"Well, they'd be dear at ten!"

"But, Oldsort, why don't you classify them a bit, and pay them what they are worth; or give them a little interest in their work? How does Newstyle manage?"

"I don't know, I'm sure. I don't like Newstyle."

"Why not?"

"Because he gets all the best labourers from everyone else to work for him."

"Does he give higher wages?"

"He doesn't seem to; but somehow they earn more. He's got some trick of making them work. Why they look as if they was working for themselves!"

"Perhaps they are, Oldsort. Perhaps they are."

And his landlord rode quietly on from Oldsort's to visit Newstyle, who lived two or three miles off.

Now this Newstyle was a Yorkshireman, lately come into the district—an active, energetic, intelligent farmer, who certainly had the knack of getting round him all the best labourers in the neighbourhood, and inducing them to work for him in a way they would work for no one else, as Oldsort had said. This was Newstyle's explanation of his system (a very simple one) which was fast making him one of the wealthiest and best-to-do farmers in Westshire.

"You see, when I first came here five years ago, I found wages at eleven shillings a week, and the men doing about two-thirds of a day's work for it, and though cottage rents were certainly low, the gardens were very inadequate. The first thing I did, was to pick out the best labourers I could find, and give them an extra shilling a week, which afterwards

sent up wages all round a shilling a week; but, however that's neither here nor there. One day my men (I employ eight on my farm) came to me, and said, quite respectfully, they wanted me to consider if I could give them a rise in wages. Well, I said, we'll talk about it. How much do you want? 'Fifteen shillings a week, and we think we can do more work on that than on twelve shillings.' Very well, suppose I rise you to fifteen shillings a week, then you'll be able to pay me a full rent for your cottages, and you'll be able to pay for your own beer and potato ground; and subscribe to clubs, so that when you are sick you'll require no help from me. And then I shall be able to do with one or two men less, so that the worst will be knocked off. "If you please, sir," they said, 'we should like to talk this over amongst ourselves first.' Next Monday morning then we'll have another talk. Next Monday morning they came with a different story. 'If you please, sir, we've thought better about the rise in wages, but could you let us each have a bit of ground, for our gardens are very small, so that we cannot keep a pig, nor grow vegetables for our families.' That I will, I said, and a good deal more I've got to say to you now. I've been thinking of our last conversation, and this is what I propose to do.

"1. To give you all a piece of ground, besides your present gardens, of a quarter to one-third of an acre, as conveniently as I can make it, for which you shall pay the same rent as I do. I've settled it with my landlord, who is quite agreeable.

"2. To give you as much task work as possible, so that you'll be able to earn two shillings or three shillings a week more. Turning manure and many other things we've hitherto done by day-work we'll do by piece-work.

"3. To give you all an interest in my profits. You know the shepherd already gets so much on each lamb: now I mean you all to be able to earn something in your separate departments in this way. I divide you into two gangs, the men that attend chiefly to the stock, cowmen, shepherds, pigmen; and the men that attend mostly to the crops, ploughmen, wagoners, &c. For every lamb that is reared after the first fifty I shall allow sixpence; for every lamb after the first 150 I shall allow one shilling. I expect about 200 lambs this year, so that the shepherd may get about one hundred sixpences and fifty shillings, that is £5, if he raises 200 lambs. Then for every calf born I shall allow the cowman 2s. 6d.; for every litter of pigs reared, threepence a pig, and for every pig fatted something more. Then for the fat stock, for every beast sold, I shall allow the man who looks after them one shilling in the pound on the profit. If I buy ten beasts for £200, and sell them for £300, that will be exactly one hundred shillings,

or £5, for the man who looks after them. Then, as to the crops, that is white crops (I don't reckon the others) my land on an average produces twenty-five bushels to the acre. Now for every extra bushel which by good cultivation, deep ploughing, or extra carefulness and labour it may be made to give, I shall divide one shilling per bushel among the crop men. Thus, if on my 100 acres of wheat next year, I get twenty-eight bushels instead of twenty-five that will be three hundred shillings, or £15 to divide among those four men; and as I believe with better cultivation and care it may be made to produce nearly thirty bushels to the acre, there would be five hundred shillings, or £25 to divide among the four men, or £6 5s. each.

"4. But besides these profits, which I do not consider will come out of my pocket, but out of your increased labour and work, I propose to allow to one or two of you who have saved money (say £20) the run of a cow on my farm at 2s. 6d. a week, as they do in Northumberland. (This was received with very strong expressions of approval.)

"That is my scheme: I have since made one alteration in giving to the pigman every year the least fat of all my bacon pigs, instead of allowing him to keep one for himself; the consequence of which is that they are all so fat it is impossible to select the leanest. The system has been going on now for three years come next autumn, with the most satisfactory results. I have only lost one calf in that time, whereas I used formerly to think myself lucky if I only lost two a year; lambs and pigs in the same proportion. My land, that before never produced more than twenty-eight bushels to the acre, and generally twenty-five or twenty-six, last year gave thirty-one, and will, I believe, average that for the future. I believe I am making money twice as fast as any farmer in Westshire; and I never knew before that it was possible for farming to make such profits. My men are perfectly satisfied, and do double the work they did before, getting in addition more than half their former income. I reckon that without raising wages above what I raised them when I first came, namely, from eleven to twelve shillings a week (and leaving privileges and cottage rents as they were) my ordinary labours are getting from eighteen to nineteen shillings a week in this way:—

	Per week.	
	s.	d.
Allotment of land—about £4 of profit, or	1	6
Task work during half the year at 3s.	1	6
Industrial profits in the farm, £5 to £7 say	2	6
Weekly wages	12	0
Harvest 50s., or	1	0
	18	6

"Besides this, they have beer and cheap cottages, gleaming privileges and carriage of coal. Sunday men get an extra shilling, and those that keep a cow get five shillings a week more out of it, so that my head-waggoner, who keeps a cow, must be getting over twenty-five shillings a week, including all

allowances, and yet I have never raised his weekly wages directly. The other day there was a meeting to form a Union in the next village, and my men attended at my request. They were hooted for refusing to join, but when they explained what they were earning they had the laugh on their side; and some London agitators who had come down to speak, declared publicly that if all the farmers acted as I did, their occupation would be gone. I believe no union or agitation, or strike would have any effect on my men. I overheard one say to another a few days ago, 'We want no strikers here.' As for the labourers with cows, the offer of another three or four shillings a week beyond their present earnings would not tempt them to go elsewhere. The men seem very grateful to me for what I have done, though except in treating them kindly and intelligently, I am doing nothing but consulting my own interests, and they certainly work harder on my farm than anywhere else this side of the Trent."

"Well, Newstyle, I hope the other farmers will soon do the same as you, and then we shall have no more discontent and agitation. I think I can do something to forward your system by letting some of the best men about here have a few acres of land to keep a cow. There's a small place of twenty acres at the other side of the village, which will fall in this next year at latest, for they tell me the old man will never get out of bed again. If I can find four or five labourers on the estate who have saved money I'll parcel it out among them as cowland, instead of reletting it as a farm."

"I'm sure," said Newstyle, "it will be a great boon to them, and a great advantage to the estate; if you're careful in the selection, it will be the means of keeping our best men in the district, and except on my farm, we are fast losing all our best workmen; the old ones are getting past their work, and the young ones go elsewhere."

"Do you think your men are equal to Northumberland labourers?"

"They're fast becoming so; my best men are quite equal to them, and getting as high wages. I have just introduced another mode of payment (consequent on the rise of wheat), by allowing one shilling per week extra when wheat is quoted in the county paper at seven shillings per bushel or over. When wheat is high, you see, the farmer benefits and the labourer suffers. And yet he is the only employer of labour who is affected by the rise and fall, so I consider such an allowance only a fair one."

"But how is it," said his landlord to Newstyle, "that other farmers do not follow your example?"

"Well, they don't seem to like to alter anything; and they can't believe but that the extra money comes out of their pockets, whereas in reality it is coming in."

"Why not make known your system more widely at some Farmers' Club, or Chamber of Agriculture?"

"Well you see, sir, it's my trade. I don't wish to make any particular secret of it, but I don't see why I should go about telling every one how to rival me in my own business."—From *The Farm Labourer* in 1872. By Sir Baldwyn Leighton.

THE MANCHESTER FARMERS' CLUB.

The first general meeting of the members was held at the Blue Boar, Market-place, Mr. H. Nield in the chair. A report of the Manchester and Salford Sanitary Association on the milk question, compiled by Dr. Leach, was announced to be read by Mr. J. POLLITT, Secretary to the Club.

The CHAIRMAN said that it was the milk question which had called the Club into existence, and the report that they were about to hear was based upon a practical examination of the whole subject; and he would venture to say that a more careful report on any subject affecting the public health had never been laid before a meeting. The following is the report:

A large portion of the milk supplied to the inhabitants of Manchester and Salford is adulterated, but this adulteration consists of the addition of water, and not, as is popularly supposed, of the introduction of such substances as chalk, starch, and brains. In only one out of a large number of specimens of milk purchased in this city and examined was

any foreign ingredient found. In this instance common salt was present in considerable quantity, but as the milk from the same dealer did not afterwards contain it, the impurity was possibly accidental. Besides adding water, however, the vendors still further deteriorate the milk which they sell by abstracting the cream. For all practical purposes it is found that the purity of a milk may be determined by ascertaining the percentage of cream and solid matter which it gives. From the extensive investigations made at the laboratory of the *Milk Journal*, it has been found that genuine milk gives 10 per cent. of cream, and contains not less than 12 per cent. of solid matter. A milk having sensibly less per cent. of cream and solid matter than this has been skimmed, or watered, or both. But the analysis requisite to estimate the quantity of solids present, though readily performed in a laboratory, cannot be undertaken in an ordinary household, and a more simple yet fairly reliable test is therefore required. An in-

strument called the lactometer has long been used for estimating the purity of milk by means of its specific gravity. The results obtained are not very reliable, however—firstly, because instruments bought at different places do not give the same indications as to purity; and, secondly, because an excess or deficiency of cream may alter the results which the lactometer gives. A rich milk if it contains a very large per-centage of cream may appear from the lactometer to have been adulterated, whilst a milk which has been deprived of cream may appear from the lactometer to be good, even though in addition to abstracting cream some water has been added. The specific gravity of cream varies much—the average, however, is about 1.030, that of water being taken at 1.000. Therefore, the presence of cream or the addition of water will produce similar results as far as specific gravity is concerned. If a cream measurer be used in addition to a lactometer, the chances of a correct result being obtained are markedly increased; if a large quantity of cream be present a somewhat lower specific gravity will be looked for, and vice versa. It is not very easy in any case to calculate to what extent the specific gravity ought to be affected from the amount of cream contained—the effects of the removal of cream do not seem quite uniform in different milks. The best plan seems to be first to ascertain the quantity of cream present by means of a cream measurer, and then to take the specific gravity of the milk after the cream has been removed. By adopting this plan a test is obtained sufficiently accurate for the ordinary purposes of seller and buyer, enabling the former to judge whether he is distributing poor or adulterated milk, whilst the latter can tell whether he is receiving that for which he pays. If a milk yields not less than 10 per cent. of cream, and when this is removed has a specific gravity of not less than 1.031, it is good, though the milk from some cows gives more cream and has higher specific gravity. The best milk tested gave 15 per cent. of cream, and had a specific gravity after creaming of 1.033.5; but the milk of the same cow varies from time to time, becoming much richer after calving. The average richness of the unadulterated milk from a number of cows ought not to be less than the standard above given. If a milk yields less than 10 per cent. but not less than 5 per cent. of cream, or if it has a specific gravity when skimmed of not less than 1.030, it is either the produce of poor cattle or it has been watered or robbed of cream. In many parts of Manchester and Salford a few cows are kept in small shippens in the town by people who retail the milk. In some cases the cows are kept entirely on grains, meal, &c., never entering a grass field. Such cattle occasionally give very poor milk. The milk of one cow thus kept and fed gave barely 5 per cent. of cream. Of about 100 specimens of milk obtained directly from different cows fed and kept in various ways this was the worst. A milk which gives less than 5 per cent. of cream, or has a specific gravity when skimmed below 1.030, has certainly been robbed of its cream or watered. The test enables a judgment to be formed as to the means by which a milk has been rendered poor. If it gives 5 to 7 per cent. of cream and when skimmed has a specific gravity of not less than 1.030 it possibly comes from poor cattle, though it may be a rich milk robbed of its cream and slightly watered. Milk giving 6 to 7 per cent. of cream and having a specific gravity of 1.020 to 1.025 has probably been rendered poor by adding water to good milk. If the same gave only 2 to 3 per cent. of cream it would probably have been robbed of cream as well as watered. Milk yielding 5 to 7 per cent. of cream, and having when skimmed a specific gravity of 1.032 to 1.033, has probably been robbed of its cream and not watered. Not unfrequently skimmed milk is added to new milk, and the mixture sold as new milk. This is equivalent in effect to robbing the cream, and is thus indicated by the cream measurer. In using the test, as above given, certain precautions must be taken, or otherwise but little reliance can be placed on the results obtained. The quantity of cream rising to the surface of milk in narrow vessels varies much according to the temperature, and somewhat, also, according to the amount of shaking to which it has been exposed. If kept continually above 60 degrees to 65 degrees unadulterated milk may not give 10 per cent. of cream. The following experiment shows how temperature affects the yield of cream: Four cream measures were filled with the same milk, which was known to be unadulterated. One was kept at about 40 degrees, one at about 60 degrees, and a third between 65 degrees and 70 degrees

and a fourth a little above 80 degrees. The temperatures were maintained about 12 hours. At the end of that time No. 1 gave 11½ per cent. of cream; No. 2 gave 10 per cent. of cream; No. 3 gave 7 per cent. of cream; and No. 4 gave 4 per cent. of cream. In ascertaining the amount of cream present in a milk, therefore, care must be taken that the cream measurer be kept in a cool place. In hot weather it is best to let the milk stand during the night for this. In the height of summer, if the night temperature does not fall below 65 to 70, a good milk may not show more than 7 per cent.; but if the thermometer sink for a portion of the time to 60 degrees, to 63 degrees, 10 per cent. of cream will be obtained from milk of average goodness. Should the cream measurer and contents be left all night in a hot kitchen, it might happen that the ordinary amount of cream would not rise to the surface even of good milk. Milk carried through the streets or otherwise much shaken gives somewhat less cream than the same milk not so treated. In specimens of milks of known purity, taken before the round and after it, there was a difference of from 1 to 2 per cent. in the cream yielded. This may in part arise, however, from the mode of distribution. The cream in the cans is continually rising to the surface, and, as the milk is usually ladled, hence the first part of the milk distributed will contain somewhat more and the latter somewhat less cream than is natural. This is the more likely to be the case in milk that has been adulterated with water, since cream rises quicker in watered than in pure milk. No means can be devised of ascertaining whether water has been added to the milk, except by the results produced in the character of the milk. Thus, a little water might be added to very rich milk, and yet it might afterwards give 10 per cent. of cream, and have a specific gravity after skimming of above 1.030. But it is quite sufficient to show that a milk contains a proper quantity of nutrient material, and this is indicated by a yield of 10 per cent. of cream and a specific gravity of 1.031. Apart from the character of the cattle, in some cases, however, an unadulterated milk may give less than 10 per cent. of cream. It is customary in many farms round Manchester to save the strippings for butter, and send the rest to be sold as new milk. Now strippings contain more cream than the other milk, in some cases yielding from 15 to 24 per cent., and hence milk from which the strippings have been withheld may not give above 5 per cent. of cream, even though pure and unadulterated. If milk be kept in tall vessels and ladled out to customers as they apply, that obtained by the last comers will certainly contain less than the normal amount of cream. In whatever way, however, the milk is deteriorated, whether by adulteration with water, by the addition of skim milk, or by a careless method of distribution, the result is the same as far as the consumer is concerned. The lactometer and cream measures, used in the way suggested, will sufficiently indicate the character of the milk for ordinary purposes; it will enable any one to ascertain readily whether or not he is receiving good and pure milk. In the experiments made by the committee of the Manchester and Salford Sanitary Association the results of analyses have always pointed to the same conclusions as those obtained by the lactometer and cream measurer, yet, when perfect accuracy is required, as for legal purposes, the latter test should always be supplemented by an analysis. When public analysts are appointed for Manchester and Salford, those who receive milk which the lactometer shows to be impure should report the same to the central authorities. The analyst ought then to obtain specimens, and if the adulteration is confirmed by his examination the vendor should be prosecuted. But till public analysts are appointed the buyer who finds his milk adulterated can only change his source of supply—unless, indeed, those interested take up the matter as has been before suggested, and have regular analyses of milk made in the same way as in London. The names of those who sell good and of those who sell adulterated milk might then be published weekly. Of the vital importance of a pure milk supply there can be no doubt, and any means taken which will diminish the wholesale adulteration of milk at present practised will no doubt decrease to some extent the present high rate of mortality in Manchester and Salford.

The CHAIRMAN read the following letter, which he had received from the Town Clerk of Salford: Dear sir,—The Adulteration of Food, Drugs, and Drinks Act of 1872 is now in force; and by the 3rd section, any person who shall sell any liquor, food, or drug, knowing the same to be mixed with any

other substance, with the object of increasing its weight or bulk, without declaring such a mixture to any purchaser, before delivering the same, shall be deemed to have sold such liquor, food, or drug, so adulterated. The second section says that the penalty for such an offence shall be £20 in the first case, and in the second publicity of the name of the offender. I suppose water is used in adulteration, and, therefore, your association will, under the act, be able to deal with the milk question.—EDWIN ANDREW.

A vote of thanks was accorded to Dr. Leach, and the Man-

chester and Salford Sanitary Association, for their valuable report, and a similar compliment was agreed to in respect of the Corporation and Town Clerk of Salford, for their exertions in regard to the subject of milk.

Mr. HOWARD moved—That, in the opinion of this meeting, it is desirable, for the promotion of the public interest, that the Corporations of Manchester and Salford should appoint a public analyst, with a view of carrying out the suggestions contained in the report just read.

Mr. SHUTTLEWORTH seconded the motion, which was carried.

UNIFORMITY OF WEIGHTS, MEASURES, AND COINS.

At a meeting of the British Association, Sir JOHN BOWRING read the following report of the Committee :

Another great stride has been made towards the attainment of uniformity in the weights, measures, and coins of all countries, by the passing of a law in Austria, in June, 1871, rendering the use of metric weights and measures permissive from the 1st of January, 1873, and compulsory from the 1st of January, 1876. The metric system is gradually diffusing itself all over Europe. At this moment fully two-thirds of that continent, measured by population, have adopted the metric system of weights and measures, and the other third has manifested sufficient interest in the question to justify the expectation of its early adhesion to the general agreement. But in this third there are comprised Russia and England, two countries which, by their population and commerce, exercise an enormous influence in the whole world. The state of the question in Russia appears to be as follows : In 1859 a committee of the Imperial Academy of Russia, consisting of the academicians, Ostrogradski, Jacobi, and Kupfer, issued a report on the subject, which approved of the decimal division already incorporated in the Russian system, the rouble being divided into 100 kopecks, the vedro into 10 krouchki, and the inch into 10 lines; and expressed an opinion in favour of extending such decimal division to weights and measures. In discussing, however, the possibility of even this moderate reform, the academicians saw that a very considerable change would be required. Supposing the foot were retained as a unit, how could it be decimalized without abandoning altogether such divisions as the archine, which is $2\frac{1}{2}$ feet, and the sagene, which is 7 feet? Yet these are really more in use than the foot itself. And what multiples could be adopted? The foot of Russia, which is identical with that of England, is too small to measure cloth by, and 10 feet would be too large a unit. With such difficulties attending the decimalization of the existing weights and measures, the academicians felt that it would be far better for Russia at once to introduce the metric system, and this was the conclusion of their recommendations. Since the publication of this report, the Imperial Academy of Russia has taken an active part in the advance of the metric system all over the world. In 1867 M. Jacobi was a member of the International Committee on weights, measures, and coins, in connection with the Paris International Exhibition, and wrote the report which was agreed to by the representatives of all the nations who took part in the conference on the subject. And later still, in 1870, on the representation of the Imperial Academy of Russia to the French Government, and to the scientific bodies of other nations, of the need of preparing more accurate and uniform metric standards for the use of countries which might adopt the metric system, an International Commission was appointed to prepare such standards. This Commission met in Paris in June, 1870, and is about to resume its labours. These steps on the part of the Imperial Academy of Russia are doubtless unofficial; yet when we consider the just influence which the Academy exercises on a subject of this nature, it is reasonable to anticipate that its recommendation will be duly heeded, and that, as soon as the standards are completed, the Russian Government will take into consideration the necessary steps for introducing the metric system, whereby the weights and measures of Russia may be rendered identical with those of the greater number of European nations. In the United Kingdom considerable progress has been made towards the introduction of the metric system, though much certainly remains to be done. In 1862

a Committee of the House of Commons was appointed to consider the practicability of adopting a simple and uniform system of weights and measures, with a view not only to the benefit of our internal trade, but to facilitate our trade and intercourse with foreign countries. In discussing the question of the possible decimalization of the existing system, the Committee of the British House of Commons, in the same manner as the Committee of the Imperial Academy of Russia, reported that it would involve almost as much difficulty to create a special decimal system of our own, as simply to adopt the metric decimal system in common with other nations. And under these circumstances the committee came to a unanimous recommendation in favour of the introduction of the metric system. Accordingly, in 1864, an Act was passed to render permissive the use of such weights and measures, so far as to legalize contracts made in terms of metric weights and measures, which was heretofore prohibited; but no provision having been made for obtaining corrected standards whereby to verify the same, the use of the new system in shops was not thereby permitted. A royal commission has, however, since been appointed on the condition of the standards of weights and measures of the United Kingdom, and after a considerable inquiry, it issued a report recommending the procuring of metric standards, and the removal of every difficulty to the permissive use of metric weights and measures. We may therefore hope that her Majesty's Government will speedily bring forward a measure for carrying the recommendations of the commissioners into effect. At this moment in Europe alone nearly 200,000,000 of people have already recognized the metric system as the international method of measures and weights, 160,000,000 of whom have adopted it in a compulsory manner. Should Russia and England finally place their legislation on the same footing, the other smaller states will certainly follow, and Europe will have attained perfect unity as regards weights and measures. But in other parts of the world also considerable progress has been made. In Asia, the whole of India may be said to have adopted the metric system, though some time may elapse before the act passed by the Indian Government can be carried into operation. In America, the United States have introduced it permissively; whilst Brazil, Chili, Mexico, Grenada, and other American Republics have adopted the metric system absolutely. Nor has there been less done as regards the coinage. If we compare the coins now in use all over the world with those in use some twenty years ago, it will be seen what advance we have already made everywhere towards unity. Some countries, such as France, Italy, Switzerland, Belgium, Greece, and Roumania, have already an identical system of coinage secured to them by the Coinage Convention of 23rd December, 1865. The Austro-Hungarian Empire issues gold pieces marked 20 florins and 8 florins, equal to 25 francs and 10 francs respectively. Spain has issued gold pieces of 25 pectas, equal to the 25 franc piece; and Sweden the caroline, equal to 10 francs. The Committee much regret that the German Empire, which had recently a most favourable opportunity for extending the desired uniformity, an object to which she has shown her adherence by the recent adoption of the metric system, has issued a new gold coinage which has nothing in common either with the money of the Convention of France, Switzerland, Italy, Belgium or with the monetary systems of England or the United States. It is much to be desired that there be clearly fixed in the public mind the points on which a general agreement exists in

matters of international coinage. There is a general agreement on the advantage of a complete decimal system; on the adoption of the fineness at nine-tenths fine and one-tenth alloy; and the greatest number of states also agree on the adoption of gold as the only standard of value. Between the three leading systems of the world, viz., the dollar, the pound sterling, and the franc, a point of contact has been found in the 5-franc piece and its multiples, the 10 and 20-franc and the 25-franc piece; and considerable agreement has already been obtained in this method of approaching the question. Your committee would look forward to a much greater identity of coinage being ultimately realized than could be obtained by this method; but it should be remembered that even the universal acceptance of this plan would immensely simplify the relations of coinage between the different nations, and of necessity lead to a more identical system. During last year your committee have had communications with the Indian Government on the question of introducing the metric weights and measures in India, the original Act, by which all the weights and measures of the metric system were introduced, having been vetoed by the Home Government, and another, limited to the weights and measures of capacity, having been passed in its stead. And with other countries also your committee have had opportunities for inculcating and advancing the principle of uniformity. In England the action of the Committee has been most influential, especially in connection with education. It was at the instance of the committee that the Committee of Her Majesty's Privy Council on Education have required that instruction in the metric weights and measures shall be given in the elementary schools in the country. In order to stimulate education in the subject, to explain the general character of the metric system and its relation to the imperial, and to indicate the advantage which would result from an international system of weights and measures, your Council have granted to schools copies of books and documents on the metric system, which have been gratefully received. In January, 1872, a public meeting was held at the Mansion House, under the Presidency of Sir John Bennett, sheriff of London, when resolutions were passed in favour of the early introduction of the metric system of weights and measures, and the decimal division generally. At this meeting Sir John Lubbock, F.R.S., General Strachey, F.R.S., Rev. William Jowett, Dr. Farr, F.R.S., the Hon. R. G. Northrop, Superintendent of Public Instruction in the United States, Hon. M. Ryan, of the Canadian Senate, and others, took part. The unification of the weights and measures and coins all over the world is fraught with immense benefit to science, commerce, and civilization; the philosophical and scientific bodies of all nations have given their adhesion to it; the commercial classes look for it as an important instrument in the progress of commerce; producers and manufacturers desire it as an essential element in the economy of time and in the performance of international works; and travellers all over the world regard it as the greatest boon that could be conferred. Towards the attainment of this important object, the Metric Committee of the British Association for the Advancement of Science have exercised an important influence; and they trust that, if they are allowed to continue their action for a few years longer, they will be able to report the recognition, all over the world, of the principle of the promotion of which they were appointed.

Mr. NEWTON FELLOWES, in moving the adoption of this report, spoke very strongly in favour of the metric system. He pointed out the enormous saving of labour, which would be effected by it in making calculations. For every figure which we should have to write in the metric system, we now had to write five. The reason was, that the metric system was not merely decimal, but it was decimally related. It had been said, "Why cannot we decimalize the English system?" but suppose we were to decimalize the foot or the yard, the inch would have no decimal relation to them. It was just so with regard to weights. He remembered being at Birmingham, at a meeting of civil engineers, at which some of the principal engineers of the kingdom were present. A discussion took place on the metric system, and he took a bar of wood and gave the dimensions in English inches, and requested those present to tell him the number of cubic inches. He proceeded to work it out according to the metric system, and then to re-translate it, and he was able to do so before any gentleman could arrive at a conclusion in the ordinary way. The

metric system was spread throughout Europe and prevailed in other parts of the world. Some persons supposed it to be a French system, but it was not so; it was an international system, and was intended to be an international system. Before the French revolution there had been a conference for the purpose of deciding upon something which should be universal, and delegates were asked to be sent from all the various countries. The Royal Society of Great Britain did not send delegates, but other learned societies of other countries did, and the result was the devising of this scheme. It would be observed that all the names fixed upon were either Greek or Latin, and they were selected advisedly in order that it might not be thought to be a French scheme.

General STRACHEY seconded the adoption of the report.

Mr. FRANKLIN did not wish it to be supposed that the Association pledged itself to the views set forth by the committee, because there were many members who might be greatly opposed to them. He objected to the matter being made compulsory under pain of fine and imprisonment, but there had been a bill brought into Parliament which proposed in a short period to make punishable the use of existing weights and measures. He was willing to agree to the motion if it were modified by the substitution of the word "received" for "adopted." Otherwise he should consider it necessary to move an amendment.

The PRESIDENT expressed his opinion that, as there was evidently a difference of opinion among the members of the Association in regard to the metric system, it would be better to alter the motion in the way suggested.

Sir JOHN BOWRING observed that the introduction of the principle of the metric system had gone on to a most extraordinary extent. The Bank of England would not now receive a contract for the sale of bullion unless the bullion was decimalized, and in the Clearing House it was found to be a great advantage.

The motion as altered was then agreed to.

A paper on the subject of International Coinage, by Mr. HERBERT BURGESS, was next read.

Sir JOHN BOWRING advocated the pound sterling as the basis of coinage. It was a coin recognised in every part of the civilised and commercial world, and there was not an exchange in the four quarters of the globe in which the pound sterling was not regarded as the integer.

Mr. FRANKLIN said this subject was not one of general interest, and it ought rather to be discussed by experts than from a popular point of view. He considered that people should be allowed to do as they pleased, and not be forced into the adoption of foreign standards which they did not want.

Mr. NEWTON FELLOWES said he was glad the subject had been brought before the meeting, because it was very useful to know what views were held, and what methods there were in which our coinage or any other coinage could be decimalized. Various propositions had been made as to what should be taken as the unit. £4, £2, £1, 10s., 2s., 8s., 4d., 4s., 2d., and 10 francs, were at different times advocated as a basis. The simplest, though not necessarily the best, was either the dollar or 100 pence. We could also get a decimal system at once by coining a piece worth 1,000 farthings, and that was what he recommended. He wished to point out one error which most people who had advocated the decimalization of our coins had made. They had begun at the wrong end in making the pound as the unit. Now, that was not the unit. We should begin in the same way as in arithmetic. The unit was 1. If we began decimalization downwards, we should get into all sorts of difficulties. That was the reason why Sir John Bowring's florin had not gone farther. If, for instance, one wanted to post a letter it would cost a penny; but supposing we were to coin a piece to represent not a farthing, or the 960th part of a pound, but the 1,000th part; then it would be necessary to give either four or five of those pieces for the postage of a letter instead of the present penny. In the former case, there would be a loss to the revenue of a quarter-of-a-million, in the latter case there would be a gain of a million. The tolls throughout England for railways and roads, and the taxes on tea and sugar and vast numbers of other things were all based on the penny being a certain portion of a pound. Therefore, it necessarily followed that, in considering this subject, there were many matters to be taken into account. The customs would have to

be altered, or else the Chancellor of the Exchequer might find himself minus a million. It would be necessary to say "Instead of paying 2d. for such and such a duty you must pay something." It involved much greater difficulties than people imagined. But by beginning at the farthing all the coins now in use would be still usable as being such a proportion of

1,000 farthings. Hence, though he recognised with Sir John Bowring the advantage of a coin being universally known, it was beginning at the wrong end. He would recommend that there should be a coin that might be international, and that it should be nine-tenths fine, viz., nine gold and one of alloy, and of a certain metric weight.

THE PUBLIC HEALTH ACT.

The Act is comprised of 60 clauses:

SANITARY AUTHORITIES.—3. Creates urban and rural sanitary districts.

4. Constitutes, with one or two exceptions, (1) boroughs, (2) the districts of improvement commissioners, and (3) the districts of Local Boards, urban sanitary districts, and constitutes the Corporation, Commissioners, or Local Board, the urban sanitary authority respectively. The exceptions referred to are the boroughs of Oxford, Cambridge, Blandford, Calne, Wenlock, Folkestone, and Newport in the Isle of Wight. Provision is made in this clause for cases in which the area of one local authority is for some sanitary purposes contained in the larger area of another local authority for other sanitary purposes.

5. Constitutes the whole or such portion of any union, not being within the area of an urban sanitary district, a rural sanitary district, and constitutes the Guardians of the Union, under certain conditions, the rural sanitary authority.

6. Directs that all sanitary authorities shall hold a meeting within 28 days of the passing of the Act—i. e., on or before the 8th day of September.

7. Enacts that the Local Government Acts (which include the Public Health Act, 1848) shall be in force in urban sanitary districts, and transfers to urban sanitary authorities the powers possessed by, and the duties imposed upon, the sewer authority under the Sewage Utilization and Sanitary Acts, and of the local authority, under the Nuisances Removal, the Common Lodging-houses, the Artisans and Labourers' Dwellings, and the Bakehouse Regulation Acts.

8. Enacts that after the first meeting of a rural sanitary authority there shall be transferred to such authority the powers possessed by, and the duties imposed upon, the sewer authority under the Sewage Utilization and Sanitary Acts, and by and upon the local authority under the Common Lodging-houses, the Diseases Prevention, and the Bakehouse Regulation Acts.

9. Transfers to sanitary authorities (urban and rural) the property, with its liabilities, obligations, &c., possessed before the passing of the Public Health Act, 1872, by any authority whose powers and duties have been transferred to and imposed upon such sanitary authorities.

10. Obliges each urban sanitary authority to appoint a medical officer of health, and each rural sanitary authority to appoint a medical officer or medical officers of health, and an inspector or inspectors of nuisances, and other necessary officers and servants. The Local Government Board may under certain conditions pay half the salaries of the medical officers of health and of the inspectors of nuisances.

11. Repeals the 4th section of the Artisans and Labourers' Dwellings Act, 1868.

12. Provides for the appointment of the clerk and treasurer of both urban and rural sanitary authorities and for their salaries. The clerk and treasurer of rural sanitary authorities to be the Union clerk and treasurer, who are to receive additional remuneration for duties imposed upon them under this Act.

13. A rural sanitary authority may appoint a committee consisting entirely of its own members, to be the sanitary authority for its term of office. The rural sanitary authority (including such committees) may also appoint parochial committees, consisting wholly of the members of the appointing sanitary authority, or partly of the members of such authority, and partly of other persons contributing to the rate levied for sanitary purposes. The parochial committees are to be the agents only of the sanitary authority to be subject to its regulations.

14. Repeals the 4th section of the Sanitary Act, 1866.

15. Empowers the inspectors of the Local Government Board to attend the meeting of rural sanitary authorities and of local boards.

16. Provides how the expenses incurred by the urban sanitary authorities are to be met.

17. Provides how the expenses of rural sanitary authorities are to be met. The expenses being divided into two classes: 1. General expenses to be met by a common fund to be contributed by the whole district; and (2), special expenses to be a separate charge on each contributory place in the district. Contributory places are, as a rule (1), special drainage districts; (2), parishes wholly without the area of a special drainage district, or of an urban sanitary district; (3), such part of each parish as is without the area of a special drainage district or of an urban sanitary district.

18. Provides the mode of raising from the Overseers, by means of precepts, the contributions from rural sanitary districts. The money raised for special expenses to be carried to the credit of the account of the contributory place in which it was raised.

19. Provides a remedy in cases where the Overseers neglect to pay the amount required by the precept of a rural sanitary authority.

PORT SANITARY AUTHORITIES.—20. Empowers the Local Government Board to constitute any riparian authority—comprising any sanitary authority a part of whose district abuts upon any port or waters thereof, and any conservators or commissioners having authority in such port—the "Port Sanitary Authority," who may delegate to any of the component riparian authorities such or all of its powers as it may think fit. The Mayor and Corporation of London are constituted the Sanitary Authority of the port of London. A port means a port as established for Customs' purposes.

21. Enacts that the expenses of the Port Sanitary Authority are to be defrayed out of a common fund, to be contributed by the riparian sanitary authorities as the Local Government Board thinks just.

ALTERATION OF AREAS.—22. Empowers the Local Government Board to dissolve or otherwise alter a Local Government District; to dissolve an Improvement Act District when it is within the area of a borough; to dissolve a special drainage district wherein no sanitary works have been executed, and in respect of which money has not been borrowed; but if works have been executed in respect of which a loan has been raised, the Local Government Board may, in addition to dissolving the district, merge it in the parish or parishes in which it is situated.

23. Empowers the Local Government Board, on the application of the authority of a rural sanitary district, or of ratepayers representing one-tenth of the net rateable value of such district, or of any contributory place therein, to constitute such district, or contributory place, an urban sanitary district with the like powers of an urban sanitary district created by the Act.

24. Empowers the Local Government Board to declare any rural sanitary district, or any portion thereof, an urban sanitary district.

25. The Local Government Acts, or any provisions thereof, not to be adopted without the consent of the Local Government Board. Rural sanitary authorities may, with the consent of the Board, constitute any portion of its area a special drainage district.

UNION OF DISTRICTS.—26. The Local Government Board may, on application made and due inquiry had, form any sanitary districts or contributory places into a united district for the following purposes: 1. The procuring a common supply of water. 2. The making a main sewer or carrying into

effect a system of sewerage for the use of all such districts or contributory places. 3. For any other purposes of the Sanitary Acts.

27. Directs that notice of the union of districts should be published in a local newspaper, that the expenses of such union shall be a first charge on the rates, and that the making of the provisional order shall be taken as evidence that all legal requirements have been fulfilled.

28. Enacts that the governing body of a united district shall be a joint Board of elective members, the number to be determined by the Local Government Board.

29. Relates to the constitution of the above Board, and directs that the powers of the sanitary authorities of the contributory places of the united district shall cease on the joint Board being constituted.

30. Directs that the expenses shall be paid out of a common fund, and that the joint Board may borrow money on the credit of such fund.

31. Enacts that the sums required be obtained by precept on the sanitary authority of each component district, and provides a remedy in cases of default.

32. Authorizes the use for purposes of outfall of sewer of subjacent district by authority above such subjacent district.

REPEAL OF LOCAL ACTS.—33. Authorizes the Local Government Board to repeal, alter, or amend any local Acts of Parliament, except Acts relating to the conservancy of rivers, and provides for the payment of compensation in cases of abolution of office.

34. Substitutes the consent of the Local Government Board for that of the Secretary of State and of the Treasury with regard to the borrowing of money, or appointment of officers for sanitary purposes; the approval of the Board to be substituted for that of the Secretary of State in regard to the appointment of food analysts. If there is any dispute as to what are "sanitary purposes" under the section, the Local Government Board's determination to be conclusive.

35. Transfers to the Local Government Board, from and after the 1st of January, 1873 (unless such transfer shall have been previously made by Order in Council), the powers and duties of the Board of Trade under the Alkali Act, 1863, and under the Metropolis Water Acts, 1852 and 1871; and

36. Transfers at once the powers and duties of the Secretary of State under the Highway and Turnpike Acts, while

37. Provides for the transfer of all officers and others employed for the purposes of the above Acts.

38. Provides for the salary of the medical officer of the Local Government Board.

39. Provides for the settlement by provisional order of differences, should any arise out of the transfer of powers or property of sanitary authorities, and in cases where it is necessary for the confirmation by Parliament of such orders.

40. Empowers sanitary authorities to borrow money on the credit of the rates for permanent works, while

41. Empowers such authorities to raise money also on the credit of land, works, or other property possessed by them.

42. Repeals Sec. 151 of the Public Health Act, 1848, which exempted from stamp duty bonds and deeds executed by local Boards.

43. Enacts that where in any local Act of Parliament a limit of rating is fixed, such limit shall not apply to expenses required for sanitary purposes.

44. Authorizes the Public Works Loan Commissioners to grant loans to sanitary authorities at 3½ per cent. interest.

45. Provisional orders of the Local Government Board to be confirmed by Parliament.

46. Directs that where the period of repayment of loans has been extended to 50 years, the security shall not be invalid, though given originally for a less period than 50 years.

47. The costs of promoting or opposing provisional orders to be deemed expenses properly incurred, and may be paid by the contraction of a loan for the purpose.

48. Directs that all orders of the Local Government Board (unless otherwise directed) shall be published in the *London Gazette*.

49. Enacts that the accounts of all sanitary authorities shall be made up to such day or days in each year as the Local Government Board may direct; and that the accounts of rural sanitary authorities shall be audited by the Poor-law auditors.

50. Provides for the taxation by the clerk of the peace of solicitors' bills of costs when required by a sanitary authority whose accounts have to be audited.

51. Empowers sanitary authorities to destroy infected bedding, &c., and to compensate the owners thereof.

52. Imposes a penalty on any person wilfully neglecting, or refusing to obey, orders, &c., of the Local Government Board; and also on any person who obstructs the execution of any order, &c., made under Sec. 52 of the Sanitary Act, 1866, for preventing the introduction of cholera or other dangerous infectious disorder.

LEGAL PROCEEDINGS.—53. Enacts that the *status* of sanitary authorities, as regards legal proceedings, is not interfered with by the Public Health Act, 1872.

54. Provides for the raising the necessary funds for the payment of debts incurred on behalf of a defaulting sanitary authority.

SAVING CLAUSES.—55. Enacts that authorities under local Acts may proceed either under the local Acts or the sanitary Acts, or both, provided no person is punished under both Acts for the same offence; and that the sanitary authority shall not, by reason of its having powers under a local Act, be exempt from any duties imposed upon it by the sanitary Acts.

56. Act not to affect obligations imposed upon collegiate or other corporate bodies by the Sewage Utilization Act, 1867.

57. Act not to affect any outfall or other works of the Metropolitan Board of Works, or to affect any of that Board's rights or powers.

58. Deals with districts constituted in pursuance of the Public Health Act, 1848, for the purpose of main sewerage only. The Local Government Board may, by provisional order, dissolve such districts.

59. Declares the powers given by the Act to be cumulative.

60. Defines the several terms used in the Act.

LEICESTERSHIRE AGRICULTURAL SOCIETY.

MEETING AT MARKET HARBOUROUGH.

The show of implements was not large, and what is rather unusual, there was no exhibitor from the town itself. The principal collection was that of W. Ball and Son, of Rothwell, and they were awarded the first prize of £5. Messrs. Mobbs, Snow, and Wood, Northampton, exhibited chaff-cutters, churns, ploughs (single and double), and were awarded a prize of £2. Ball, of North Kilworth, exhibited carts, waggons, and ploughs, and was awarded a prize of £2. Hughes, of Brampton Ash, exhibited a set of laid-corn lifters for attaching to reapers, so as to enable them to cut corn when beaten down, without the disadvantage of having their knives adjusted so low as to run the risk of being choked; and for this a prize of £1 was awarded.

The horse show was decidedly the most successful department of the show. The classes were nearly all well filled, the number of entries in the sixteen classes being 133, very few of which were absent. The quality of the animals was generally good, and presented in many of the classes great uniformity of excellence. In the class for five-year-old hunters, open to all England, there were ten entries. The class for hunting geldings or fillies, four years old, bred within the limits of the local hunts, numbered nine entries. The classes for two years old and yearlings included some very promising animals, and numbered between them eighteen entries. The class for mares calculated to breed hunters reached eleven entries, among which were several well-made roomy animals. The first prize

was taken by Mr. J. E. Bennett, with Lady Florence. The class for hacks filled well, the entries reaching nineteen. In the class of tenant-farmers' hunters there were seven entries, chiefly good, well-bred, weight-carrying animals. The class for agricultural geldings or fillies, two years old, was a very good level class, and numbered sixteen entries. Honest Lass, shown by Mr. H. Purser was only commended.

Owing to the prevalence of the foot-and-mouth disease amongst the stock of Leicestershire and the adjoining counties, there was but a small show of cattle, there being a great falling-off of entries in some of the classes. In the fat cow class the two best animals were exhibited by Mr. W. Bradburn, of Wednesfield, Wolverhampton. Mr. J. Sharp, Broughton, Kettering, also exhibited some good animals, and bore off a large share of prizes. He had the best bull under two years old. Mr. T. Allen, Thurmaston, also took several prizes. In the Alderney and Guernsey class there was not a strong competition, and only one exhibitor in the Scotch oxen class. Mr. R. H. Chapman, of Upton, Nuneaton, had entered several animals for competition, but, owing to having become affected with the foot-and-mouth complaint just before the show, they did not put in an appearance. There was a fair average show of sheep, the Leicesters being very good, although small in number. The long-woolled also deserve attention; and of the Shropshire breed there was a fair show. In the long-woolled classes, Mr. T. W. D. Harris, Wootton, Northampton, ran away with the lion's share of awards; and in the Shropshire classes, Mr. W. German, Measham, Mr. S. C. Pilgrim, and Mr. W. Baker, Moor Barns, Atherstone, were prominent exhibitors. Of pigs, there was also a small show, the prizes for the most part going to exhibitors outside the county; but Messrs. W. Carver and Sons, Ingarsby, took a first prize for a pen of breeding pigs. Of cheese and butter the entries were not numerous, there being only two classes, with six prizes; but the poultry was a great attraction.

PRIZE LIST.

UDGES.—HUNTING HORSES: Elliott, Walker, R. Howard. AGRICULTURAL HORSES: Woodhouse, T. Wright. CATTLE: R. T. Newton, C. Howard. SHEEP AND PIGS: C. Keeling, Sanday, J. Painter. CHEESE AND BUTTER: M. Pratt, of London. IMPLEMENTS: J. Hicken.

HORSES.

Hunters, not less than five years old and under ten.—First prize, £20, W. P. Hubbersty, Wirksworth; second, £10, R. Howell, Oakley, Bedford. Commended: W. H. Brown, Lyddington.

Hunters, four years old.—First prize, £20, J. Drage, Brixworth, Northampton; second, £5, J. E. Bennett, Husbands Bosworth Grange, Rugby.

Hunters, three years old.—First prize, £10, R. Battams, Oxendon, Market Harborough; second, £5, J. E. Bennett.

Hunters, two years old.—First prize, silver cup or £10, J. E. Bennett; second, £5, J. Pratt, Shangton, Leicester.

Yearling colts or fillies.—Prize, £5, B. E. Bennett, Marston Trussell Hall, Market Harborough. Highly commended: J. Parker, Kilby Bridge, Leicester. Commended: R. L. Parker, Oxendon.

Mares for breeding hunters.—First prize, £10, J. E. Bennett; second, £5, Sir W. de Capell Brooke, Bart. Highly commended: H. W. Bucknill, Rugby. Commended: R. Kirkman, Little Oxendon.

Mares for breeding hackneys, under 15 hands 1 inch.—First prize, £5, J. Watson, Foxton, Market Harborough; second, £3, C. Glover, Oxendon, Market Harborough.

Hacks, not less than 14½ hands and not exceeding 15½ hands.—First prize, silver cup or £10, R. L. Parker; second, £5, G. G. Payne, Foston, Leicester.

Cobs, not exceeding 14½ hands.—First prize, silver cup or £5, J. Wiggins, Market Harborough; second, £2, C. Montague, Newton Harcourt, Leicester. Commended: T. Warner, Leicester Abbey.

Ponies, not exceeding 13½ hands.—First prize, silver cup or £5, Major Quentin, Woodleigh, Cheltenham; second, £2, H. Purser, Wellington Manor, Bedford.

Ponies, not exceeding 12 hands.—First prize, £3, T. Drackley, Market Bosworth; second, £2, W. H. Harrison, Great Oxendon.

Hunters, not less than four years old and under ten.—First

prize, £10, T. H. Bland, Dingley Grange, Market Harborough; second, £5, W. Hunt, Caldecote. Commended: C. A. Pratt, Shenton, Nuneaton.

Geldings or fillies for agricultural purposes, two years old.—First prize, silver cup or £5, R. Timms, Braunstone, Rugby; second, £2, T. W. D. Harris, Wootton, Northampton. Highly commended: T. Stokes, Caldecote.

Geldings or fillies for agricultural purposes, one year old.—First prize, silver cup or £5, H. Burgess, jun., Illston Grange; second, £2, R. Timms. Commended: H. Burgess, jun.

In-foal mares for agricultural purposes.—First prize, £5, F. H. Vergette, Borough Fen, Peterborough; second, £2, T. Warner.

Stallions for agricultural purposes.—Prize withheld until the close of the season.

Foals for agricultural purposes.—First prize, £5, T. Stokes, Caldecote; second, £2, Lady Elizabeth Villiers. Commended: H. Burgess, jun., Illston Grange.

CATTLE.

Fat oxen.—First prize, £10 and a silver cup, Sir W. de Capell Brooke; second, £5, W. Colwell, Thorpe-by-Water.

Fat cows or heifers.—First and second prizes, £10 and £5, W. Bradburn.

Bulls, above one and under two years old.—First prize, £7, J. J. Sharp, Broughton, Kettering; second, £3, G. J. Grimsdick, Othorpe House, Market Harborough.

Bulls of any breed, over two years of age.—First prize, £7, T. Allen, Thurmaston, Leicester; second, £3, Lady Elizabeth Villiers, Sulby Hall, Rugby.

Bull calves, under one year old.—Prize, £5, T. Allen. Commended: C. Bays, Northall-street, Kettering.

Cows in milk.—First prize, J. J. Sharp, Broughton; second, £3, W. Bradburn, Wednesfield, Wolverhampton. Commended: Sir W. de C. Brooke, Bart., Geddington Grange.

In-calf heifers, above one and under three years old.—First prize, £5, J. J. Sharp; second, £2, Sir W. de C. Brooke.

Stirks, above one and under two years old.—First prize, J. J. Sharpe; second, £3, Sir W. de C. Brooke.

Heifer calves, under one year old.—Prize, £5, J. J. Sharp. Commended: T. H. Bland, Dingley Grange.

Long-horn bulls.—Prize, £5, W. T. Cox, Spondon Hall, Derby.

Long-horn heifer in calf.—First and second prizes, £5 and £2, W. T. Cox.

Alderney and Guernsey cows or heifers.—Prize, £5, A. Robinson, The Elms, Melton-road, Leicester. Commended: J. Marriott, Braybrook, and J. H. Douglass, Market Harborough.

Pair of Scotch oxen.—Prize, 10 gs. or cup, B. E. Bennett, Marston, Market Harborough.

Bulls of any age.—Prize, £5, W. Smalley, Loughborough.

Cows in milk.—First prize, £5, J. J. Sharp, Broughton, Kettering; second, £2 10s., T. H. Bland, Dingley Grange, Market Harborough. Highly commended and commended: S. C. Pilgrim, The Outwards, Hinckley. Commended: R. Wade, Ashley, Market Harborough.

Heifers under three years old.—First prize, £5, S. C. Pilgrim; second, Mr. T. H. Bland.

Shorthorn heifers under three years old.—First prize, £5, J. J. Sharp; second, £2, T. H. Bland.

Pair of stirks, under two years old.—First prize, £5, J. J. Sharp; second, £2, S. C. Pilgrim.

SHEEP.

Pure-bred Leicester shearing rams.—First prize, £5, G. Turner, jun., Thorpeland, Northampton; second, £2, S. Spencer, Snareston, Ashby-de-la-Zouch. Commended: S. Spencer.

Pure-bred Leicester rams of any other age.—No competition.

Long-woolled shearing rams.—First prize, £5, R. Johnson, Uppersfield, Wirksworth; second, £2, T. W. D. Harris, Wootton, Northampton.

Long-woolled rams of any other age.—First prize, £5, R. Johnson; second, £2, A. Hack, Buckminster, Grantham.

Three long-woolled fat wether sheep, 20 months old.—Prize, £5, Sir Wm. de Brooke, Bart., Geddington Grange, Kettering.

Three long-woolled ewes.—First prize, £5, T. W. D. Har-

ris; second, £2, T. Allen, Thurmaston, Leicester. Highly commended and commended: A. Hack.

Long-woolled theaves, under 20 months old.—Prize, £5, T. W. D. Harris.

Five long-woolled ewe lambs.—Prize, £5, T. W. D. Harris.

Shropshire Shearling rams.—First prize, £5, W. German, Measham Lodge, Atherstone; second, £2, Lord Chesham, Latimer, Chesham. Commended: W. H. Clare, Twycross, Atherstone.

Shropshire ram of any other age.—First prize, £5, Lord Chesham. Highly commended: W. Baker, Moor Barns, Atherstone. Commended: J. H. Bradburn, Pipe-place, Lichfield.

Shropshire fat wether sheep under 20 months old.—Prize, £5, S. C. Pilgrim. Commended: Lord Chesham.

Cross-bred fat wether sheep, under 20 months old.—Prize, £5, Sir W. de Brooke, Bart.

Shropshire ewes that have suckled lambs to the 20th of June, 1872.—First prize, £5, J. H. Bradburn; second, £2, W. Baker.

Shropshire theaves under 20 months old.—Prize, £5, Lord Chesham. Highly commended: W. H. Clare, Twycross, Atherstone.

Shropshire ewe lambs.—Prize £5, J. H. Bradburn.

Long-woolled breeding ewes that have suckled lambs up to the 20th of June, 1872.—Prize £7, T. Allen, Thurmaston, Leicester.

Short-woolled breeding ewes that have suckled lambs up to the 20th of June, 1872.—First prize, £7, W. Baker; second, £3, S. C. Pilgrim.

PIGS.

Boars of the large breed.—First prize, £3, M. Walker,

Stockley Park, Anslow, Burton-on-Trent; second, £1, M. Walker. Highly commended: J. Hicken, Dunchurch.

Boars of the small breed.—First prize, £3, M. Walker, second, £1, J. Wheeler and Sons, Long Compton, Shipston-on-Stour, Warwick.

Berkshire Boars not exceeding 18 months old.—First prize, £3, and second, £2, J. Wheeler and Sons.

Breeding sows of the large breed.—First prize, £3, M. Walker; second, £1, R. E. Duckering, Northorpe, Kirtou Lindsey. Highly commended: — Hicken, Dunchurch, Rugby.

Breeding sows of the small breed.—First prize, £3, M. Walker; second, £1, J. Wheeler and Son. Commended: R. E. Duckering.

Three breeding pigs of the large breed, of one litter, not exceeding seven months old.—First Prize, £3, R. E. Duckering; second, £1, J. Wheeler and Sons.

Three breeding pigs of the small breed.—First prize, £3, W. Carver and Sons, Ingarsby, Leicester; second, £1, J. Wheeler and Sons. Commended: R. E. Duckering.

CHEESE.

Four cheeses, weighing 35lbs. each or more.—First prize, £5, W. Smalley, Loughborough; second, £3, withheld; third, £2, S. C. Pilgrim, Burbage, Hinckley.

Four cheeses, weighing not more than 35lbs. and not less than 20lbs.—Prize withheld.

BUTTER.

Six pounds of fresh butter.—First prize, £1, W. H. Johnson, Braunstone, Leicester; second, 10s., W. Daniel, Mister-ton Lodge, Lutterworth.

THE WORCESTERSHIRE AGRICULTURAL SOCIETY.

MEETING AT STOURBRIDGE.

A glance at the catalogue showed that nearly all the exhibitors at the recent show at Gloucester had entered here; but the 50 guineas challenge cup, presented by Lord Sudeley, and Earl Beauchamp's champion prize of £25, both for Short-horns, brought out in addition Mr. Linton's Royal winner, Lord Irwin, and one or two other far comers; whilst Mr. Webb, of Fladbury, whose herd is shortly to be disposed of, figures with no fewer than a dozen entries. As usual at most of the meetings lately, several stalls were vacant owing to the prevalent fear of the foot-and-mouth disease, a recent attack of which prevented the Marquis of Exeter's bull Telemachus, the winner of the challenge cup last year, from showing for the prize in class 1 with Mr. Linton's white bull and Mr. G. Garne's Earl of Warwickshire, as he would otherwise have done; so the Royal second scored another first, and holds the Sudeley Challenge Cup until next year. The same exhibitor also stands first in yearling bulls, with Messrs. Stratton's Irish winner, Jack Frost, second. The Churchill Heath herd comes out strong with females; taking all three first prizes with Princess Alexandra, Butterfly's Duchess, and Partridge. Mr. W. Bradburn, the Earl of Stamford, and the Marquis of Exeter run second to Mr. G. Garne with cows, two years old and yearling heifers respectively. The Herefords are much the same as were seen at Gloucester; the champion prize being taken by Messrs. Fenn and Harding's Bachelor, with Mr. H. N. Edward's Sir John second, and his Albert first in the yearling bull class, with Mr. J. Rawlings second. The competition was very limited in the cow and heifer classes, there not being sufficient animals sent to take all the prizes; but Mr. Tanner's prize cow, Lady Milton, and his winning heifer, Princess Louisa, won, with Mr. Prosser second to both with useful farmer's beasts. The Shropshire sheep are accorded the pride of place by the Society; and the breeders have responded to the liberal encouragement given them by a good entry in every class. The result is a triumph for the Hattons flock of Mrs. Beach, who takes first prize in every class in which she is eligible to compete, viz., aged ewes, yearling ewes, aged and yearling rams, and wethers open to all England and

any breed. Mr. Frimstone scores a second and third for old ewes, and third for yearlings; whilst Mr. J. Pulley sends from Herefordshire some shearing rams, which are placed second and third. A second prize for yearling ewes was won by Mr. Foster, of Apley, in a strong class; the other prize for aged rams going to Mr. W. Baker. The Southdown classes are poor in number, as only Sir W. Throckmorton and Mr. H. S. Waller compete; the latter having rather the best of the competition. The local prizes for ewes and lambs fell to the lot of Messrs. E. Webb and Sons, of Kinver, and Mr. H. Allsopp. In the miscellaneous lot comprised under the head of long-wools are Cotswolds, Cotswold Greys, Leicesters, Lincolns, and crosses between most of these. Messrs. Duckering, Walker, Wheeler and Sons, were well represented, and about equally matched in large and small white pigs. As is generally the case this year, the classes for Berkshires are the best filled and included the finest specimens. Mr. Heber Humfrey comes to the front in all three classes, viz., for boars, sows, and pairs of gilts. In the thoroughbred stallion classes, in addition to many of the sires shown at Bingley Hall in 1871 and last week, Lord Stamford's Cambscan, now the property of the Austrian Government, and the Earl of Coventry's Umpire were entered, but the former failed to put in appearance, and the winner was found in Laughing Stock. The Mallard, bred by the late Earl of Glasgow, took second prize in the open class and first in that open to the county, in which the American-bred Umpire was placed second; thus reversing their last year's places. Mr. Wynn was again victorious with his cart stallion; and the most successful exhibitor in the cart-horse section was Mr. Stephen Davis, of Woolashill, Pershore, who obtained four prizes with animals all of his own breeding.

PRIZE LIST.

JUDGES.—CATTLE: R. Doig, Lillingstone Hall, Buckingham; H. Ridgley, Steventon, Ludlow; W. Torr, Aylesby, Grimsby. SHEEP AND PIGS: T. Horley, The Fosse, Leamington; R. H. Masfen, Pendeford, Wolverhampton. HORSES: Y. R. Graham, Westbourne Road, Birmingham;

J. Fearon, Corckickle, Whitehaven; J. M. K. Elliott, Heathencote, Towcester. IMPLEMENTS: W. H. Clare, Twycross, Atherstone.

CATTLE.

SHORTHORNS.

Best bull in Shorthorn classes.—Prize, £25, W. Linton, Sheriff Hutton, York.

Bulls above two years old.—First prize, £10, W. Linton; second, £5, G. Garne. Highly commended: Marquis of Exeter. Commended: H. Allsopp.

Bulls above one and under two years old.—First prize, £10, W. Linton; second, £5, R. and J. Stratton; third, £2, Earl of Stamford and Warrington.

Cows in milk or in calf.—First prize, £8, G. Garne; second, £4, W. Bradburn. Highly commended: J. Webb.

Two-year-old heifers in milk or in calf.—First prize, £8, G. Garne; second, £4, Earl of Stamford and Warrington; third, £2, J. Edmonds.

Yearling heifers.—First prize, £6, G. Garne; second, £4, Marquis of Exeter; third, £2, O. Viveash.

The Taddington Challenge Cup, value 50 guineas.—W. Linton.

HEREFORDS.

Bulls above two years old.—First prize, £10, Fenn and Harding; second, £5, H. N. Edwards.

Bulls above one and under two years old.—First prize, £10, H. N. Edwards; second, £5, J. Rawlings.

Cows in milk or in calf.—First prize, £8, R. Tanner; second, £4, B. Prosser.

Two-year-old heifers in milk or in calf.—First prize, £8, R. Tanner; second, £4, B. Prosser.

Yearling heifers.—Prize, £6, H. N. Edwards.

Pairs of dairy cows, in milk, any breed.—Prize, £8, J. Webb.

Dairy cows, in milk or in calf, any breed.—First prize, £5, F. Munn; second, £2, J. Webb.

Two-year-old heifers, in milk or in calf, any breed.—First prize, £5, Earl of Stamford and Warrington; second, £2, F. Munn.

Alderney or Guernsey bulls.—Prize £5, Col. W. Burrows. Alderney or Guernsey cows, in milk or in calf.—Prize, £5, Col. W. Burrows.

SHEEP.

SRIROPSHIRE.

Five breeding ewes, having had lambs in 1872, and suckled them up to June 1st.—First prize, £5, S. Beach; second, £3, and third, £2, W. C. Firmstone.

Five theaves.—First prize, £5, S. Beach; second, £3, W. O. Foster; third, £2, W. C. Firmstone.

Shearling rams.—First prize, £5, S. Beach; second, £3, and third £2, J. Pulley.

Rams of any age.—First prize, £5, S. Beach; second, £3, W. Baker.

(By the Stourbridge local committee.)—Five theaves.—Prize, £5, E. Webb and Sons.

Ram of any age.—Prize, £5, E. Webb and Sons.

Five ewe lambs.—Prize, £5, H. Allsopp.

OXFORD AND OTHER DOWNS.

Five breeding ewes, having had lambs in 1872, and suckled them up to June 1st.—Prize, £4, H. S. Waller, Farmington, Northleach.

Five theaves.—Prize, £4, Sir W. Throckmorton, Bart., Buckland, Faringdon.

Shearling ram.—First prize, £5, H. S. Waller; second, £3, Sir W. Throckmorton, Bart.

Ram of any age.—First prize, £5, H. S. Waller; second, £2, Sir W. Throckmorton, Bart.

LONG-WOOLLED.

Five breeding ewes, having had lambs in 1872, and suckled them up to June 1st.—Prize, £5, J. Baldwin, Luddington, Stratford-on-Avon.

Five theaves.—First prize, £5, T. W. D. Harris; second, £3, T. Jowitt.

Shearling rams.—First prize, £5, and second, £3, T. W. D. Harris.

Rams of any age.—First prize, £5, J. Wheeler and Sons; second, £2, T. Harris.

(By the Stourbridge local committee.)—Five breeding ewes

having had lambs in 1872, and suckled them up to June 1st.—Prize, £5, T. Harris.

Five theaves.—Prize, £5, T. Parry.

Rams of any age.—Prize, £5, T. Harris.

Five ewe lambs.—Prize, £5, T. Harris.

CROSS-BRED.

Five wethers.—Prize, £4, J. S. Walker, Knightwick, Worcestershire.

Five yearling wethers or theaves fit for killing.—First prize, £10, Sarah Beach; second, £5, H. Allsopp. Highly commended: H. S. Waller and J. Baldwin.

Five fat lambs fit for killing.—First prize, £3, T. Wight; second, £2, R. A. Parkes.

PIGS.

Boars, large breed.—First prize, £5, R. E. Duckering; second, £3, M. Walker.

Breeding sows, large breed.—First prize, £5, M. Walker; second, £3, R. E. Duckering. Highly commended: E. Davies.

Two hils, large breed.—First prize, £5, M. Walker; second, £3, R. E. Duckering. Highly commended: R. E. Duckering.

Boars, small breed.—First prize, £5, R. E. Duckering; second, £3, J. Wheeler and Sons.

Breeding sows, small breed.—First prize, £5, R. E. Duckering; second, £3, J. Wheeler and Sons.

Two gilts, small breed.—First prize, £5, R. E. Duckering; second, £3, J. Wheeler and Sons. Highly commended: H. Allsopp.

Boars, Berkshire breed.—First prize, £8, H. Humfrey; second, £4, T. Radcliffe. Highly commended: H. G. Bailey.

Breeding sows, Berkshire breed.—First prize, £5, H. Humfrey; second, £3, M. Walker.

Two gilts, Berkshire breed.—First prize, £5, H. Humfrey; second, £2, H. G. Bailey. Highly commended: T. Radcliffe.

HORSES.

Stallion cart-horse for agricultural purposes.—First prize, £15, W. Wynn; second, £10, E. Jones.

Pair of cart geldings or mares (or gelding or mare), above four years old.—First prize, £8, S. Davis, Woollashill, near Pershore; second, £5, R. Woodward, Arley Castle, Bewdley.

Agricultural gelding or mare.—First prize, £7, S. Davis; second, £3, C. Corfield. Highly commended: T. Pinkney.

Cart mares and foals.—First prize, £5, T. Pinkney; second, £3, C. Turner.

Cart fillies or geldings, two and under three years old.—First prize, £5, E. Smith; second, £3, S. Davies. Highly commended: A. Walker.

Yearling cart colts and fillies.—First prize, £10, S. Davies; second, £5, C. Corfield. Highly commended: T. Ballinger.

Thoroughbred stallions.—First prize, £50, J. Moffatt; second, £10, M. Biddulph.

Thoroughbred stallions that have served mares regularly in the county of Worcester during the season of 1872, or are certified to do so in 1873, and whose covering fee for half-bred mares has not exceeded the sum of £5.—First prize, £20, M. Biddulph; second, £10, Earl of Coventry.

Hunter, irrespective of weight.—First prize, £25, T. Perceval; second, £10, Major G. A. F. Quentin.

Hunters that have been ridden in the past season with the Worcestershire, Herefordshire, Ledbury, Cotswold, North Cotswold, Albrighton, Ludlow, North and South Staffordshire, or North Warwickshire hounds.—First prize, £20, W. H. Cooke; second, £10, W. Smith.

Hunters, the property of tenant-farmers resident in Worcestershire.—First prize, £10, H. H. Griffin; second, £5, N. Cottrill. Highly commended: F. Blakeway.

Hunting mare or gelding under five years old.—First prize, £10, H. H. Griffin; second, £5, C. Cooper, Hayward. Highly commended: N. Cottrill.

Three-year-old gelding or filly for hunting purposes.—First prize, £10, F. D. L. Smith; second, £5, J. Goodliff.

Two-year-old colt or filly for hunting purposes.—First prize, £10, F. Blakeway; second, £5, R. Swanwick.

Hack not exceeding fifteen hands.—First prize, £5, A. Buck; second, £3, H. Sparrow. Highly commended: J. Parkes.

Pony under fourteen hands.—First prize, £5, Major G. A. F. Quentin; second, £3, R. L. Campbell. Highly commended: W. Tyler.

Pony under twelve hands.—First prize, £3, W. J. Turney; second, £2, J. Hooman. Highly commended: B. Brooks.

Class 65.—First prize, £10, B. Prosser; second, £5, H. H. Griffin. Highly commended: D. Cochrane.

IMPLEMENTS.

Best collections.—£5 and silver medals to J. E. Larkworthy and Co., Worcester, and T. Corbett, Shrewsbury.

Silver medals to Bradford and Co., London and Manchester,

for washing machine; Lawrence and Co., for refrigerator; Webb, Wordsley, for grass and clover seeds, &c.; Healey, Stourbridge, for collection; Hathaway, Chippenham, for barrel churn; Bate, Compton Mill, near Wolverhampton, for circular corn or grist mill; Denton, Wolverhampton, for collection; Wallis and Stevens, Basingstoke, for stacking elevator; Humphries, Pershore, for portable steam-engine; Carter and Co., Holborn, London, for farm, garden, and grass seeds.

EAST CUMBERLAND AGRICULTURAL SOCIETY.

MEETING AT CARLISLE.

There was a large show of horses, including some good animals, but a large proportion of inferior sorts. Shorthorns and Galloway cattle made a fine display, and the minor departments of the show were well filled.

PRIZE LIST.

JUDGES.—**SADDLE AND HARNESS HORSES:** J. Jardine, Dryfeholme, Lockerby; W. Hawdon, Walkerfield, Staindrop; W. Foster, Burradon, Morpeth; J. Hutchinson, Manor House, Catterick. **CART HORSES:** L. Drew, Merryton, Hamilton; J. Brown, Bog Hall, Biggar. **SHORTHORNS AND SHEEP:** C. Crisp, Hawkshill, Alnwick. **GALLOWAYS AND PIGS:** J. Rome, Glinger Bank, Longtown; J. Grierson, Kirkcudbright.

HORSES.

SADDLE HORSES.

Mare with foal at foot.—First prize, £3, T. Baxter, Broomfield, Aspatia; second, £1, T. Jefferson, Hall Flatt, Scaleby.

Mare in foal.—First prize, £3, T. Bell, Whorlton, Newcastle-upon-Tyne (Victoria); second, £1, J. Rickaby, Wallhead, Carlisle.

One-year-old filly.—First prize, £2, Messrs. Stoddart, Skinburness, Silloth; second, £1, G. T. Carr, Silloth.

Two-year-old gelding.—First prize, £2, Rev. W. Dacre, The Glebe, Irthington; second, £1, J. W. Hodgson, Flatt, Kirkbampton.

Two-year-old filly.—First prize, £2, T. C. Thompson, Kirkhouse, Brampton (Meg Merrilies); second, £1, T. Milburn, Grimsdale.

HARNESS HORSES.

Mare with foal at foot.—First prize, £3, T. Kitchen, Thomas Close; second, £1, J. Armstrong, Unthank, Skelton.

Mare in foal.—First prize, £1, J. Liddell, Brownelson, Carlisle; second, £1, R. B. Faulder, Thursby, Carlisle.

One-year-old gelding.—First prize, £2, W. Thompson, Saughtreegate, Hayton, Carlisle; second, £1, L. Potts, Wigton.

One-year-old filly.—First prize, £2, W. Nichol, Cargo, Carlisle.

Two-year-old gelding.—First prize, £2, Messrs. Stoddart, Skinburness; second, £1, J. Dixon, Whinney Hill, Cumwhitton.

Two-year-old filly.—First prize, £2, T. Pattinson, Botcherby; second, £1, J. Bell, Blackdub, Corby, Carlisle.

Three-year-old gelding.—First prize, £3, J. Fawcett, Scaleby Castle; second, £1, A. Hayton, Scales, Leigate.

Three-year-old filly.—First prize, £3, J. Hope, Syke Farm; second, £1, W. Smith, Low Harker, Carlisle.

Four-year-old gelding or filly.—First £3, J. Hyslop, Burt-holme, Brampton.

CART HORSES.

Brood cart mare, with foal at foot.—First prize, £3, T. Marshall, Howes, Annan; second, £1, G. H. Head, Rickerby, Carlisle.

Brood mare in foal.—First prize, £3, J. and W. Platt, Saughtrees, Wamphray; second, £1, R. Brockbank, Currock.

One-year-old gelding.—First prize, £2, R. B. Faulder, Thursby, Carlisle; second, £1, J. Percival, Burgh-by-Sands.

One-year-old filly.—First prize, £2, J. Graham, Parcelstown, Westlinton; second, £1, G. Bainbridge, Whampton.

Two-year-old gelding.—First prize, £2, Mrs. Gibbons, Rose trees, Longtown; second, £1, J. Cartner, Drumburgh, Carlisle.

Two-year-old filly.—First prize, £2, I. Fawkes, Smalinstown; second, £1, J. Beattie, Newby House, Annan.

Three-year-old gelding.—First prize, £3, T. and W. Little, Bowness Hall; second, £1, G. H. Head, Rickerby, Carlisle.

Three-year-old filly.—First prize, £3, Mary Sturdy, Drawdykes Castle, Carlisle; second, £1, R. Brockbank, Currock.

Four-year-old gelding or filly.—First prize, £3, G. J. Bell, Irthington; second, £1, J. Armstrong, Cumwhitton, Carlisle.

CATTLE.

SHORTHORNS.

Bulls above two years old.—First prize, £8, J. C. Bowstead, Hackthorpe, Penrith; second, £3, J. Lamb, Burrell Green, Penrith.

Bulls under two years old.—First prize, £8, W. Lambert, Elrington Hall; second, £3, J. Lamb.

Cow or heifer above three years old, in calf or milk.—First prize, £4, J. Lamb; second, £2, W. Lambert.

Heifers under three years old in calf or milk.—First prize, £3, W. Lambert.

Heifers under two years old.—First prize, £2, Mrs. Eshlton, Chesterwood, Haydon Bridge; second, £1, R. B. Hetherington, Park Head, Silloth.

GALLOWAYS.

Bulls above two years old.—First prize, £8, J. Graham, Parcelstown (Willie of Westburnflat).

Bulls under two years old.—First prize, £8, M. Clarke, Culmaine; second, £3, P. Moreton, Laws Hall, Longtown (Sir James).

Cows or heifers above three years old, in calf or milk.—First prize, £4, and second, £2, J. Cunningham, Tarbreoch, Dalbeattie.

Heifers under three years old in calf or milk.—First prize, £3, J. Graham (Hermione 5th); second, £1, J. Cunningham.

Heifers under two years old.—First prize, £3, and second, £1, J. Graham (Margaret Douglas and Hermione 6th).

SHEEP.

First shear Leicester tup.—First and second prizes, R. Jefferson, Preston Hows, Whitehaven.

Shearling Border Leicesters.—First prize, J. Winter, Low House; second, W. Lambert, Elrington Hall.

Tup of any age.—First prize, £2, R. Jefferson; second, 10s., W. Lambert.

Border Leicester tup of any age.—First prize, £2, J. Winter; second, £1, G. F. Statter, Broomhills, Carlisle.

Longwool tup of any age.—First prize, £2, and second, £1, W. Norman, Hallbank, Aspatia.

Pen of three Leicester ewes.—First prize, £2, G. F. Statter; second, 10s., W. Lambert.

Pen of three Leicester gimmers.—First prize, £2, J. Winter; second, 10s., G. F. Statter.

PIGS.

Boars under four years old.—First prize, £2, and second, £1, J. Bulman.

Sows under four years old, to be in pig or milk.—First prize, £2, J. Taylor, Ireby Mill, Wigton; second, £1, J. Brown, Kirkbampton, Carlisle.

SHEEP DOGS.

A silver cup, value £3 3s., for rough and smooth collie dogs and bitches.—First prize, E. Foster, Lowther-street, Carlisle; second, J. Lancaster, Wreay, Carlisle.

WHITBY AGRICULTURAL SOCIETY.

This Society held its thirty-ninth annual exhibition of stock and implements with every success. The early part of the day was particularly fine, but in the afternoon a heavy shower fell and lasted some time. The attendance was more numerous than usual, and the display of stock was of a superior character, although it was a matter of regret that the entries of horses was less than those of last year. The following acted as judges.

HORSES.—**HUNTERS, ROADSTERS, AND PONIES:** J. W. Annett; J. S. Darrell. **COACHING AND AGRICULTURAL:** R. Hodgson; J. Robson. **CATTLE, SHEEP, AND PIGS:** W. Smith; T. Jolly. **MOOR SHEEP:** W. Todd; G. Allison. **IMPLEMENTS:** R. Stephenson; J. Kerr.

PRIZE LIST.

HORSES.

Thorough-bred stallion.—Prize, J. Robson, Old Malton.
Coaching stallion.—Prize, R. Rhea, Pickering.
Coaching brood mare, with her foal or stunted.—First prize, J. Porritt, Buck-rush, Saltburn-by-the-Sea; second, F. Stainthorpe, Newton Mulgrave.

Coaching foal, colt or filly.—First prize, C. Knaggs, Stockton-on-Tees; second, G. Stanforth, Goldsbro'.

Yearling coaching colt or gelding.—First prize, T. Jobling, Kildale; second, G. Stanforth.

Yearling coaching filly.—First prize, J. Burton, Thirsk; second, C. Richardson, St. Hilda's-terrace.

Two-year-old coaching gelding.—First prize, W. Thompson, Lealholm Bridge; second, W. Ward, Banniel-flat.

Two-year-old coaching filly.—First prize, F. Stainthorpe; second, Mrs. Benstead, Hinderwell.

Three-year-old coaching gelding.—First prize, Hadland and Shepherd, Beverley; second, R. Cowell, Bretton, Saltburn-by-the-Sea.

Three-year-old coaching filly.—First prize, I. Scarth, Northallerton; second, J. and J. Welford, Newton Mulgrave.

Cleveland bay brood mare, with her foal or stunted.—First prize, cup, L. Manfield, Thirsk; second, J. Porritt.

Agricultural brood mare, with her foal or stunted.—First prize, W. Burnett, Dunsley; second, G. Oliver, Old Malton.

Agricultural foal, colt or filly.—First prize, G. Oliver; second, T. Scoby, Kirby Moorside.

Agricultural yearling colt or filly.—First prize, T. G. Malloy, Great Habton, Pickering; second, W. Sleightholm, Ugglebarney.

Two-year-old agricultural filly or gelding.—Prize, G. Allison, Hawsker.

Pair of agricultural horses.—First prize, W. Burnett; second, E. Corner, Broad Ings.

Hunting brood mare, with her foal or stunted.—First prize, W. Muzeen, Slingsby; second, R. Jackson, Normanby.

Hunting foal, colt or filly.—First prize, W. Muzeen; second, F. Stainthorpe.

Yearling hunting colt or filly.—First prize, J. Weighill, Whitby; second, T. Scoby.

Two-year-old hunting gelding.—First prize, W. Hill, Fylingdales; second, J. Dawson, Hinderwells.

Two-year-old hunting filly.—First prize, P. Newton, Peak; second, P. Shimmias, Whitby.

Three-year-old hunting gelding.—First prize, W. Muzeen; second, E. H. Turton, Larpool.

Three-year-old hunting filly.—First prize, T. Proud, Hutton-le-Hole; second, J. Harrison, Glaisdale.

SPECIAL PRIZE.

Hunting mare or gelding.—First prize, cup, E. Nesfield, Scarbro'; second, J. Harrison, Redcar.

Leaping.—First prize, W. Duell, Barrowby; second, L. B. Morris, Castleton; whip, G. Pearson, Westonby; spurs, —, Hudson, Scarbro'.

DISTRICT PRIZE.

Hunting mare or gelding.—First and second prizes, W. Ward, Banniel Flat.

Roadster mare or gelding.—First prize, J. Scarth; second, J. Robson, Old Malton.

Ponies over 12½ and not over 14½ hands.—First prize, J. J. Leeman, York; second, Hadland and Shepherd.

Ponies not to exceed 12½ hands.—First prize, G. Wallis, Whitby; second, G. Speedy, Whitby.

Donkey.—First prize, R. Jackson, Lythe; second, T. Richardson, Sandstead.

CATTLE.

Bull-calf under 12 months old.—First prize, J. Stephenson, York; second, D. Hartley, Westerdale.

Yearling bull.—First prize, D. Hartley; second, Major Worsley, Hovingham.

Two-year-old bull.—Prize, W. Rudsdale, Danby.

Heifer calf under 12 months old.—First prize, J. Stephenson; second, G. and J. Smith, Westerdale.

Yearling heifer.—First prize, E. Barker, Stokesley; second, J. Nicholson, Northallerton.

Two-year-old heifer in milk or calf.—First prize, J. Stephenson; second, R. Hodgson, Westerdale.

Cow in milk or calf.—First prize, J. Stephenson; second, J. Wilson, Farndale.

Yearling Shorthorn bull.—First prize, D. Hartley; second, Mrs. Attlay, Whitby.

Dairy cow, with special reference to milking.—First prize, J. Bloomen, Whitby; second, R. and T. Smith, Whitby.

Two yearling heifers, property of exhibitor six months prior to show.—First prize, J. Kerr, Lythe Hall; second, E. Corner.

Cottager's cow.—First prize, J. Boyes, West Barnby; second, T. Richardson, Sandstead.

SHEEP.

LEICESTERS.

Two-shear or aged ram.—First prize, R. P. Petch, Priestcroft; second, C. and W. Dovener, Ripon.

Shearling ram.—First and second prizes, C. and W. Dovener.

Tup lamb.—First prize, W. S. Gray, Hawsker; second, C. and W. Dovener.

Five ewes, having reared lambs in 1872.—First prize, W. S. Gray; second, W. Ward.

Five shearling gimmers.—First prize, E. Corner; second, T. Beeforth.

Five gimmer lambs, bred by exhibitor.—First prize, W. Ward; second, W. S. Gray.

Three tup lambs, bred by exhibitor.—First prize, T. Frankland, Hutton Mulgrave; second, W. S. Gray.

MOORS.

Two-shear or aged tup.—First and second prizes, J. Waind, Kirby Moorside.

Shearling tup.—Second prize, C. and J. Smith.

Tup lamb.—First prize, W. Rudsdale; second, J. Medd, Kirby Moorside.

Five ewes having reared lambs in 1872.—First prize, C. and J. Smith; second, W. Rudsdale.

Five shearling gimmers.—First prize, J. Waind; second, W. Rudsdale.

Five wethers, two-shear or upwards, bred by exhibitor.—First and second prizes, J. Peirson, Goathland.

PIGS.

Boar of any breed under 12 months old.—First prize, R. P. Clarkson, Pickering; second, W. Rudsdale.

Sow of any breed under 12 months old.—First prize, R. P. Clarkson; second, T. Cross, Malton.

Boar of any large breed over 12 months old.—First prize, W. Lister, Armley; second, W. Rudsdale.

Sow or gilt of any large breed over 12 months old.—First prize, W. Lister; second, J. Wilkinson.

Boar of any small breed over 12 months old.—Prize, W. Lister.

Sow or gilt of any small breed over 12 months old.—First prize, W. Lister; second, R. P. Clarkson.

Cottager's pig.—First and second prizes, J. Filburn.

EASINGWOLD AGRICULTURAL SOCIETY.

At the twelfth annual show of this Society the number of entries compared somewhat unfavourably with previous exhibitions. The meeting had been postponed in consequence of the original date clashing with another local fixture, and this alteration, and the fact of the Yorkshire Show being held last week, no doubt had the effect of detracting from its interest. The horse department, as is usually the case at these meetings, monopolised the greater part of attention, and certainly many of the classes exhibited well repaid an inspection. The agricultural horses, coaching animals and hackneys particularly, came in for praise. The show of cattle was rather numerous, and the young bull class and the dairy classes comprised several creditable animals. There was a small collection of farm implements, and attached were a poultry show, and a competition in butter, eggs, and wool. Mr. Geo. Pearson, Raskelfe, and T. and G. Barrow, of Huby, were respectively first in butter and eggs. For wool Mr. Thos. Gatenby, of Helperby, carried away the prizes.

PRIZE LIST.

JUDGES.—HUNTERS: T. Hutchinson, senr., Catterick; W. Stephenson, Cottingham; L. Hodgson, Highthorn. COACHING AND AGRICULTURAL: J. Woffinden, Norton; H. Foxton, Welburn. CATTLE, SHEEP, AND PIGS: H. Ambler, Halifax; D. Peacock, Knaresborough. POULTRY: T. Jolly, York. BUTTER: W. Humphrey, York. IMPLEMENTS AND ROOTS: J. Raimes, Acaster; E. Appleyard, Wistow.

CATTLE.

SHORTHORNS

Yearling bull.—First prize, J. Priestman, Shipton; second, J. and T. Coates, Peep o' Day.

Bull calf under 12 months.—First prize, Sir G. O. Wombwell, Newburgh Park; second, G. Robson, The Shires.

Cow of any age, in calf or milk.—First prize, T. H. Hutchinson, Catterick; second, J. Binnington, Sheriff Hutton.

Two-year-old heifer.—First prize, J. Stephenson, Wheldrake; second, J. H. Graves, Sutton-on-the-Forest.

Yearling heifer.—First prize, T. H. Hutchinson; second, Sir G. O. Wombwell.

Heifer calf under 12 months old.—First prize, T. H. Hutchinson; second, Rev. W. Prest, Ampleforth College.

Cow for dairy purposes, any breed.—First prize, R. Garbutt, Ampleforth; second, J. H. Graves.

Cow, the property of a cottager whose rent does not exceed £10.—Prize, G. Pearson, Baskelf.

Fat beast, any breed.—First prize, J. Coates, Easingwold; second, T. Radcliffe, Yearsley.

Cow or heifer for breeding purposes.—Prize, M. Hutchinson, Catterick.

Extra Stock.—Prize, F. H. Cholmeley, Brandsby Hall.

HORSES.

HUNTERS.

Mare with foal at foot.—First prize, G. J. Robinson, Thirsk; second, W. Hornby, Newburgh.

Mare or gelding of any age.—First prize, D. and R. Batty, Myton; second, W. H. Woodward, Hushwaite.

Mare or gelding, five years old and upwards.—First prize, R. Brunton, Marton; second, W. H. Woodward, Providence-hill.

Mare or gelding, four years old.—First prize, J. H. Graves, Sutton Forest; second, T. Hare, The Lund.

Fencers of any age.—First prize, T. Wells, Kirkligton; second, F. H. Cholmeley, Brandsby Hall.

Three-year-old gelding.—First prize, T. Mills, Huby; second, G. Robson, The Shires.

Three-year-old filly.—First prize, W. Clarke, Asenby; second, J. and T. Coates, Peep o' Day.

Two-year-old filly.—First prize, W. Clarke; second, T. Ward, Huby.

Yearling gelding.—First prize, R. Manfield, Thirkleby; second, J. and T. Coates.

Yearling filly.—First prize, R. Garbutt, Ampleforth; second, M. Eglin, Sutton Forest.

COACHERS.

Mare with foal at foot.—First prize, L. Manfield, Thirkleby; second, F. S. Strangeways, Aine Hall.

Three-year-old gelding.—First prize, J. Binnington, Sheriff Hutton; second, H. Pettinger, Holly Grove.

Three-year-old filly.—First prize, I. Searth, West Rownton; second, H. Pettinger.

Two-year-old gelding.—First prize, J. Wood, Bedale; second, T. Plummer, Birdforth.

Yearling gelding.—First prize, H. Pettinger; second, L. Manfield, Thirkleby.

Yearling filly.—First prize, M. Gatenby, Helperby; second, J. Burton, Kirkby Knowle.

ROADSTERS.

Mare with foal at foot.—First prize, G. Shields, Easingwold; second, H. Pettinger.

Three-year-old gelding or filly.—First prize, J. Jackson, Close House; second, J. Brotherton, Myton.

Two-year-old gelding or filly.—First prize, J. Crossley, Knaresbro'; second, J. Blenkhorn, Thirsk.

Yearling gelding or filly.—First prize, L. Manfield; second, W. Pipes, Tholthorpe.

HACKNEYS.

Mare and gelding of any age.—First prize, J. Bowman, Elvington; second, I. Searth, West Rounton.

Lady's mare or gelding of any age.—First prize, T. Appleton, Thirsk; second, E. Coverdale, Kirby Moorside.

FOR AGRICULTURAL PURPOSES.

Mare with foal at foot.—First prize, J. Pinkney, Thirsk; second, H. Pettinger, Holly Grove.

Three-year-old gelding or filly.—First prize, G. Robson, The Shires; second, H. Pettinger.

Two-year-old gelding or filly.—First prize, J. Chapman, Whitley; second, W. Gowland, Linton-on-Ouse.

Yearling gelding or filly.—First and second prizes, J. Chapman.

Mare or gelding of any age, which has been regularly worked during the season.—First prize, A. Milnthorpe, Tolberton; second, W. H. Manfield, Thirkleby.

Pair of horses of either sex, which have been regularly worked during the season.—First prize, C. Tindale, Shipton; second, W. H. Manfield.

Pony not exceeding 14 hands.—First prize, J. Pinkney, Bagby Grange; second, R. Tarbottom, Cawton.

EXTRA STOCK.

Pony and foal.—Prize, T. Douthwaite, Easingwold.

Agricultural colt.—Prize, G. W. Appleyard, Angram Hall.

Two-year-old colt.—Prize, G. Shields, Easingwold.

SHEEP.

Ram of any age, pure Leicester.—First and second prizes, T. H. Hutchinson, Catterick.

Shearling ram, pure Leicester.—First and second prizes, T. H. Hutchinson.

Ram of any age, not qualified to compete as a Leicester.—First prize, R. D. Batty, Throstle Nest; second, J. and T. Coates, Peep o' Day.

Shearling ram, not qualified to compete as a Leicester.—First prize, C. Sergeant, Hunsingore; second, C. and W. Dovener, Ripon.

Pen of five ewes.—First prize, T. H. Hutchinson; second, C. and W. Dovener.

Pen of five shearling gimmers.—First prize, T. H. Hutchinson; second, R. Tarbottom, Cawton, Gilling.

Pen of five gimmer lambs.—First prize, J. Greaves, Clothierholme; second, J. Stephenson, Wheldrake.

Pen of five wether lambs.—First prize, J. Stephenson; second, J. and T. Coates.

Tup lamb.—First and second prizes, J. Greaves.

Extra stock.—First prize, H. Lawson, Sutton; second, J. Cundall, Copt Hewick.

PIGS.

Boar, large or middle breed, upwards of 12 months old.—First prize, G. Sedgwick, York; second, F. H. Dyke, Acomb.

Sow, large or middle breed, upwards of 16 months old.—First prize, Rev. W. Prest, Ampleforth College; second, J. Hodgson, Raskelfe.

Boar, large or middle breed, under 12 months old.—Prize, G. Sedgwick.

Sow, large or middle breed, under 16 months old.—First prize, W. Meskeu, Easingwold; second, J. Smith, Acomb, Grange.

Sow, small breed, any age.—First prize, G. Sedgwick; second, R. Jones, Wigginton.

Boar, small breed, any age.—First prize, W. Gill, The Lund; second, G. Sedgwick.

Three store pigs of same litter.—Prize, W. Holmes, York.

Pig, the property of a cottager who rents a cottage at not more than £6 rent.—First and second prizes, J. Eden, Thirsk. Extra stock.—Prize, H. Haworth, Easingwold.

LYTHAM AND KIRKHAM AGRICULTURAL SOCIETY.

MEETING AT LYTHAM.

The show of horses was the best the Society has ever had, the agricultural classes being uncommonly good. Cattle were not so good a show as on previous years, owing to the foot-and-mouth disease being extensively prevalent in the district. The exhibition of sheep was good, and there were plenty of pigs. Poultry was only a fair show.

JUDGES.—LIGHT HORSES: Major Simpson Bailard, Cowbridge; J. Irving, Shap Abbey. HEAVY HORSES: R. J. Robinson, Manchester; W. Longton, Rainhill. CATTLE, SHEEP, AND PIGS: G. Drewry, Holker; T. Dodd, Wakefield.

The following is a list of the principal prizes:

HORSES.

Pair of horses for agricultural purposes, T. H. Miller, Singleton.

Brood mare for agricultural purposes, L. Wilding, Woodhal Hall.

Three-year-old gelding or filly for agricultural purposes, R. C. Richards, Clifton.

Two-year-old gelding or filly for agricultural purposes, R. C. Richards.

Yearling gelding or filly for agricultural purposes, R. Thompson, Mythop Lodge.

Colt or filly foal for agricultural purposes, T. Cartmel, Clifton.

Brood mare for hunting purposes, T. H. Miller.

Brood mare for harness purposes, W. Taylor, Fairfield.

Gelding or mare for hunting purposes, T. H. Miller.

Gelding or mare for harness purposes, — Billington, Myrescough.

Gelding or fillies for hunting purposes, W. Dodgson, Plumpton Hall.

CATTLE

Bull above two and under three years old, J. T. Clifton.

Bull under two years old, T. Rigby, Carleton Lodge.

Bull-calf, R. Thompson.

Cow in calf or milk, Rev. L. C. Wood, Singleton.

Heifer under three years old, J. Thompson, Elswick.

Heifer not exceeding two years old, R. Singleton, Wren Green.

Heifer-calf, W. Rawcliffe, Turnover Hall.

Three cows in calf or in milk, J. Saul, Woodplumbton.

Three heifers two years old, J. Tunstall.

Three heifer-calves, R. Singleton.

Cottagers' Cows: W. Smith, Westby; J. Gillet, Westby; R. Fisher, Ribby.

SILVER CHALLENGE CUPS.

Shorthorned male animal, R. Thompson.

Shorthorned female animal, Rev. L. C. Wood.

SHEEP.

Leicester or longwoolled ram, any age, T. L. Birley.

Shearling Leicester, J. Milner, Myrescough.

Leicester or any other longwoolled ram-lamb, T. L. Birley, Kirkham.

Southdown, W. Dodgson.

Shearling Southdown, T. L. Birley.

Southdown or shortwoolled ram lamb, W. Dodgson.

Pen of three longwoolled ewes, any breed, J. Milner.

Pen of three shortwoolled ewes, any breed, T. L. Birley.

Longwoolled gimmer lambs, Hon. J. B. Ogilvy, Westby.

Shortwoolled gimmer lambs, W. Dodgson.

PIGS.

Boar, large breed, T. Waring, Calforth.

Boar, small breed, A. Leigh, Lea.

Sow, large breed, J. Hall, Frickleton.

Cottagers' pigs, A. Parker, Bryning.

LEOMINSTER AGRICULTURAL SOCIETY.

The show was better than had been anticipated, as, until quite recently, there was a doubt as to its being held, owing to the great extent to which the foot-and-mouth disease has prevailed in the district. Amongst the bulls were Mr. P. Turner's Provost, Mr. Hill's Stout, and Mr. Edwards' Arkwright; but the district was, under the circumstances, only partially represented. The show of sheep was very small; in fact, scarcely worthy of the name of a show, and pigs were few and far between. Of horses, the old grey mare belonging to Mr. Towers, of Ludlow, with a foal by Jack of Newbury, was to the fore, as she has previously been in similar competitions in good classes. The two-year-old cart-colt class was a good one, and the prize-winner, a colt shown by Mr. John Price, of the Court House, Pembridge, was sold to Mr. Allen, the dealer, for £65. Mr. Meredith, of Wharton, also showed a very good brood cart-mare and foal. In the cob class there was nothing demanding notice beyond the prize-winner, a powerful, weight-carrying, cream-colour, belonging to Mr. Barling, of Hereford. A few implements, some in motion, were exhibited by Mr. Preece, of Leominster.

PRIZE LIST.

JUDGES.—STOCK: Mr. W. Evans, Llandowlas, Usk, and Mr. F. Evans, Bredwardine. HORSES: Major Heywood, Ocle Court, and Mr. E. Hughes, Lady Court.

HEREFORD CATTLE.

Bull of any age, cow and offspring.—First prize, £5 5s., P. Turner, The Leen, Pembridge; second, £2 2s., R. Hill, Orleton, Ludlow. Commended: S. Goode, Irvington, Bury.

Pair of steers, calved since the 1st of March, 1870.—Prize, £5 5s., R. Hill.

Pair of heifers, calved since the 1st of March, 1870.—Prize, £5 5s., H. N. Edwards, Broadward, Leominster. Highly commended: Mrs. Edwards, Wintercott, Leominster.

Pair of steers, calved since the 1st of March, 1871.—Prize, £5 5s., G. Yeld, Twyford, Eardisland.

Four best heifers, calved since the 1st of March, 1871.—Prize, £5 5s., P. Turner. Highly commended: G. Yeld; H. N. Edwards.

Bull, calved since the 1st of March, 1871.—First prize, £5 5s., H. N. Edwards; second, £3 3s., G. Yeld; third, £1 1s., J. Price, Court House, Pembridge.

Fat cow or heifer of any breed which has been in the possession of the exhibitor from the 1st of May last.—Prize, £5 5s., R. Hill. Highly commended: P. Turner.

Pair of fat steers of any breed which has been in the possession of the exhibitor from the 1st of May last.—Prize, £5 5s., J. Meredith, Wharton Court.

Four breeding cows or heifers in calf, or having had calves within six months preceding the day of show, and having been in the possession of the exhibitor at least ten months previously.—First prize, £5, J. Rawlings, Stoke, near Penbury; second, £3, J. Holloway, Dryhouse, Kingsland.

Ten yearlings, bred by and the property of the exhibitor, who shall show that number if his rear amounts to so many, or shall show his whole rear if they amount to less than ten, calved between the 1st of March and the 31st of December, 1871, with the exception of bulls.—Prize, £5, S. Goode, Irvington Bury.

Four steers, calved since the 1st of March, 1871, bred by and the property of the exhibitor.—Prize, £5, T. J. Carwardine, Stocton Bury. Highly commended: W. Minton, Stoke Prior.

Four heifers, calved since the 1st of March, 1871, bred by and the property of the exhibitor.—Prize, S. Goode.

There were also prizes awarded for sheep, pigs, and horses.

RICHMONDSHIRE AGRICULTURAL SOCIETY.

The amount of money given in prizes by the Society exceeded that of any former occasion, and the silver cups were more costly. The entries in many classes showed an increase on those of previous years. Cattle 88, sheep 108, horses 233, pigs 21, poultry 78, dairy produce 18, roots 59, implements 154. Foremost amongst the entries for the best Shorthorn bull stood Royal Windsor, who did not fail to credit Mr. Outhwaite with the prize, although he was closely opposed by George Peabody, a red and white, belonging to the Earl of Zetland. The herd prize was one of the principal features of the show, and brought together representatives of the herds of Colonel Towneley, the Earl of Zetland, Mr. J. Outhwaite, Mr. G. Atkinson, and Mr. T. H. Hutchinson. The twenty-five guinea cup was awarded to Colonel Towneley. The ten-guinea cup for second to Mr. Outhwaite, and the third to the Earl of Zetland. In the sheep classes Mr. T. H. Hutchinson was unapproached, as he carried off the first and second prizes in every class in which he entered. There was a creditable display of poultry, and the various samples of dairy produce were good. The following officiated as judges: Cattle—H. T. Peacock, Mount Vale, York; T. Stamper, Highfield House, Oswaldkirk, York. Long-wool and cross-breed sheep—W. Hodgson, Kirkbridge, Darlington; R. Metcalfe, Scar Top, Bishopdale. Hunters, roadsters, and special prizes—W. Young, Norwood House, Beverley; A. L. Maynard, Newton Hall, Durham. Coaching and agricultural horses—W. Robinson, Hutton Hall, Darlington; R. Wade, Little Burdon, Darlington. Implements, cheese, and roots—T. P. Outhwaite, Goldsborough; J. Trotter, Thornton Stewart. At the dinner in the evening, the president, Mr. C. Cradock, of Hartforth Hall, occupied the chair, and Mr. Outhwaite the vice-chair.

PRIZE-LIST.

SHORTHORNS.

Bull, two years old or upwards.—First prize, J. Outhwaite, Catterick; second, Earl of Zetland, Richmond.

Bull not exceeding two years old.—First prize, Colonel Towneley, Burnley; second, T. Frank, Whitby.

Bull-calf.—First prize, J. Outhwaite; second, T. H. Hutchinson, Catterick.

Cow or heifer in calf or milk, three years old or upwards.—First prize, J. Outhwaite; second, Colonel Towneley.

Heifer, two years old, in calf or milk.—First prize, Colonel Towneley; second, Earl of Zetland.

Yearling heifer.—First and second prizes, Colonel Towneley.

Heifer calf.—First prize, J. Outhwaite; second, T. Frank.

Cow in calf or milk, for dairy purposes, not being eligible to be entered in Herd-Book.—First prize, J. Barker, Richmond; second, L. Allen, Richmond.

Two-year-old heifer, not being eligible to be entered in the Herd-Book.—First prize, H. Walton, jun., Coalsgarth; second, J. Barker, High Wathcote.

Yearling heifer, not being eligible to be entered in the Herd-Book.—First prize, J. Watson, Belleisle; second, A. Young, Richmond.

Cow in calf or milk, for dairy purposes, the property of a cottager whose annual rents collectively do not exceed £15.—First prize, J. Wright, Ellerton-on-Swale; second, E. Fletcher, jun., Richmond.

Pair of two-year-old bullocks.—First prize, S. Rowlandson, Newton Morrell; second, J. Outhwaite.

THE HERD PRIZE.

Six cows or heifers and one bull of the Shorthorn breed, *bona fide* the property of the exhibitor.—First prize, Colonel Towneley; second, J. Outhwaite; third, Earl of Zetland.

SHEEP.

Leicester ram, two-shear or upwards.—First and second prizes, T. H. Hutchinson.

Shearling Leicester ram.—First and second prizes, T. H. Hutchinson.

Leicester tup lamb.—First and second prizes, T. H. Hutchinson.

Three Leicester ewes, each having reared a lamb this season.—First and second prizes, T. H. Hutchinson.

Three-shearling Leicester gimmers.—First and second prizes, T. H. Hutchinson.

Long-wooled ram, not being Leicester, two shear or upwards.—First prize, J. Husband, Sedbury; second, W. Raw, Masham.

Long-wooled shearling ram, not being Leicester.—First prize, Messrs. Trotter, Thornton Stewart; second, John Styan, Leyburn.

Long-wooled tup ram, not being Leicester.—First prize, W. Swale, Bedale; second, J. Husband.

Three long-wooled ewes, not being Leicester, each having reared a lamb this season.—First prize, W. Raw; second, Messrs. Trotter.

Three shearling long-wooled gimmers, not being Leicesters.—First prize, Messrs. Trotter; second, R. Harrison, Richmond.

Ram, two-shear or upwards, not being Leicester, for crossing with blackfaced ewes.—First prize, J. Styan; second, J. C. Slater, Catterick.

Shearling ram, not being Leicester, for crossing with blackfaced ewes.—First prize, J. Styan; second, Messrs. Trotter.

Tup lamb, not being Leicester.—First prize, H. Walton and Son, Low Gingerfield; second, T. Willis and Son, Bedale.

Three ewes, each having reared a lamb this season, for breeding rams for crossing with blackfaced ewes.—First prize, H. Walton and Son; second, T. Willis and Son.

Three shearling gimmers, for breeding rams for crossing with blackfaced ewes.—First and second prizes, T. Willis and Son.

Three ewes, each having reared a lamb this season, first cross from a blackfaced ewe.—First and second prizes, H. Walton and Son.

Three shearling gimmers, first cross from a blackfaced ewe.—First prize, J. Cundale, Ripon; second, H. Walton and Son.

Five gimmer lambs, first cross from a blackfaced ewe.—First and second prizes, L. Wilkinson, Downholme.

Five twice-crossed gimmer or wether lambs, from a blackfaced ewe.—W. Pybus, Richmond.

PIGS.

Boar of any age, large breed.—First prize, J. Pennock, Catterick; second, R. Allison, Thornton Watlass.

Sow of any age, small breed.—First prize, D. Sanderson, Richmond; second, J. Dent, Gilling.

Pig belonging to a cottager, whose rental does not exceed £6, and does not keep a cow.—First prize, W. Gregory, Gilling; second, T. Bolland, Richmond.

EXTRA STOCK.—Prize, D. Sanderson.

HORSES.

HUNTERS.

Brood mare, with foal at foot or stunted.—First prize, R. Emmerson, Darlington; second, W. C. Rockcliffe, Hull.

Three years old gelding.—First prize, B. Harrison, Richmond; second, W. Clark, Darlington.

Three years old filly.—First prize, B. Emmerson; second, J. Wilson, Richmond.

Two years old gelding or filly.—First prize, J. and G. Leng, Darlington; second, C. Cradock, Richmond.

Yearling gelding or filly.—First prize, L. Manfield, Thirsk; second, J. Calvert, Seorton.

Colt foal to be shown with dam.—First prize, R. Emmerson; second, W. C. Rockcliffe.

Filly foal to be shown with dam.—First prize, R. Emmerson; second, Miss J. Stainton, Bedale.

ROADSTERS.

Brood mare, with foal at foot or stunted.—First prize, R. Williamson, Sunny Bank, Ripon; second, R. Emmerson.

Three years old colt or filly.—First prize, R. Stirk, Bellerby; second, T. Bradley, Darlington.

Two years old colt or filly.—First prize, J. A. Smith, Catterick; second, W. Clark, Killyby.

Yearling colt or filly.—First prize, J. F. Todd, Arrathorne; second, J. C. Slater, Catterick.
Colt or filly foal, to be shown with dam.—First prize, C. Cradock; second, J. M. Pattison, Leyburn.

SPECIAL PRIZES.

Four years old hunting gelding or filly, to be ridden on the ground.—First prize, J. B. Booth, Catterick; second, C. G. Tate, Richmond.

Five years old or upwards hunting gelding or mare, by a thoroughbred horse, to be ridden on the ground.—First prize, R. B. Marton, Middlesborough; second, J. B. Booth.

Horse or mare of any age.—First prize, L. B. Morris, Castleton; second, T. Peacock, Harmby.

Four years old mare or gelding.—First prize, J. Hall, Piersebridge; second, E. Hall, Barton.

Roadster, gelding, or mare, not more than 14 hands, and not less than four years old.—First prize, T. Clarkson, Leeds; second, J. J. Leeming, Pickering.

Pony, gelding, or mare of any age, and not exceeding 14 hands high.—First prize, W. Howe, Darlington; second, Sir T. C. Constable, Bart., North Ferriby.

COACHING HORSES.

Brood mare, with a foal at foot or stinted.—First prize, M. Robinson, Glass House, Hauxwell; second, R. Watson, Maltby House, Stockton.

Three years old gelding or filly.—First prize, W. Hebden,

Low Hall, Scotton, Richmond; second, H. Rider, Redmere, Wensleydale.

Two years old gelding or filly.—First prize, J. Wood, West Tanfield, Bedale; second, J. and G. Leng.

Yearling colt or filly.—First prize, L. Manfield; second, Messrs. Stirk, Barden Lane, Bedale.

Colt foal.—First prize, T. Cuthbert, Newton-le-Willows; second, G. Meynell, Patrick Brompton.

Filly foal.—First prize, H. Jackson, Kirkby Fleetham; second, M. Robinson.

AGRICULTURAL HORSES.

Brood mare, with foal at foot or stinted.—First prize, R. Watson; second, G. Atkinson, Stocksfield.

Three years old gelding or filly.—First and second prizes, Messrs. Trotter.

Two years old gelding or filly.—First prize, R. Bell, Layton Fields, Caldwell; second, W. F. Horne, Moulton, Richmond.

Yearling gelding or filly.—First prize, R. Tweedie, Catterick; second, J. Hedley, Scotton Grange.

Colt or filly foal, to be shown with dam.—First prize, D. Wilson, Darlington; second, J. Blenkiron, Northallerton.

Pair of agricultural horses of either sex, to be shown in plough harness, the property of exhibitor.—First prize, T. H. Hutchinson; second, G. Linton, Bedale.

Donkey.—First prize, Rev. J. C. Wharton, Richmond; second, T. Markham, Richmond.

THE AGRICULTURAL STATISTICS, IRELAND, 1872.

OFFICIAL REPORT.

TO HIS EXCELLENCY JOHN POYNTZ, EARL SPENCER, K.G., &c., &c., Lord Lieutenant-General and General Governor of Ireland.

May it please your Excellency,

I had the honour of submitting, on the 2nd ultimo, a Return of the acreage under Flax in 1871 and 1872, with the number of Scutching Mills in 1871, and on the 5th ultimo, an Abstract of the number and value of Horses, Cattle, Sheep, and Pigs, by Provinces and for all Ireland, in 1871 and 1872, with the Increase or Decrease in the latter year. I now beg to submit the annual General Abstracts, which give, as usual, by Counties and Provinces, the total area under each description of crop; also the total number of Horses, Cattle, Sheep, and Pigs. The Emigration from Ireland, during the first seven months of the same years, is also given. The collection of the Agricultural Statistics, which commenced on the 1st of June, occupied about two months. The Enumerators, of whom nearly 3,800 were employed, were selected from the Royal Irish Constabulary and Metropolitan Police, and discharged this duty with their usual efficiency. The various holdings, which amount in all to about 630,000, were visited by them, and the names of the several parties from whom the particulars of Tillage and Live Stock for each holding were obtained, are stated in the Returns, with a view to further inquiry in any case, should it be deemed necessary. Your Excellency is aware that the information given to the Enumerators is altogether voluntary; and I feel assured it will afford pleasure to your Excellency to learn, as, I beg to say, it is most gratifying to me to have it in my power to state, that so far as I am informed by the Superintendents of Districts, the Returns have been collected without difficulty—a fact most highly creditable to the good feeling and intelligence of all ranks and classes connected with land in this country. The Abstracts have been carefully compiled from summaries made by the Enumerators for their respective districts, and may probably differ in some degree from the revised figures which will be hereafter published; but I do not anticipate that any change of importance will become necessary.

The total acreage under all Crops this year was 5,486,522
Ditto in 1871 (revised numbers)..... 5,621,437

Showing a decrease in the extent under Crops in 1872 of..... 134,915

The Crops which increased in extent this year are—

		Acre.	Acre.
CEREALS.....	Beans and Peas	16,262	869
	{ Turnips	19,429	
	{ Mangel and Beet Root	2,999	
GREEN CROPS..	Cabbage	6,387	30,149
	{ Carrots, Parsnips, and other Green Crops.....	1,334	

Total Increase on the foregoing Crops ... 31,018

The Crops which decreased in acreage in 1872 are—

		Acre.	Acre.
CEREALS.....	{ Wheat	16,262	
	{ Oats	14,323	
	{ Barley	2,085	34,230
	{ Bere and Rye.....	1,560	
GREEN CROPS.	{ Potatoes.....	66,632	67,922
	{ Vetches and Rape.....	1,290	
	Flax		34,667
	Meadow and Clover		29,114

Total Decrease on the foregoing Crops 165,933

Making a net Decrease in the area under all Crops of 134,915

It appears from the foregoing summaries that, compared with 1871, wheat shows a decrease of 16,262 acres, oats of 14,323 acres, barley of 2,085 acres, and bere and rye of 1,560 acres, potatoes of 66,632 acres, vetches and rape, 1,290 acres, flax, 34,667 acres, and meadow and clover 29,114 acres. In beans and peas there is an increase of 869 acres, turnips 19,429 acres, mangel and beet root 2,999 acres, cabbage 6,387 acres, carrots, parsnips, and other green crops 1,334 acres.

ABSTRACT OF CEREAL CROPS.

	1871.	1872.	Increase in 1872.	Decrease in 1872.
	Acre.	Acre.	Acre.	Acre.
Wheat.....	244,451	228,189	—	16,262
Oats.....	1,636,136	1,621,813	—	14,323
Barley.....	220,979	218,894	—	2,085
Bere and Rye.....	11,555	9,995	—	1,560
Beans and Peas....	10,913	11,782	869	—
Total	2,124,034	2,090,673	—	33,361

ABSTRACT OF GREEN CROPS.

	1871.	1872.	Increase in 1872.	Decrease in 1872.
	Acres.	Acres.	Acres.	Acres.
Potatoes.....	1,058,434	991,802	—	66,632
Turnips.....	327,035	346,464	19,429	—
Mangel Wurzel & Beet Root.....	31,921	34,920	2,999	—
Cabbage.....	33,008	39,395	6,387	—
Carrots, Pars- nips, and other Green Crops.....	29,869	31,203	1,334	—
Vetches and Rape	31,422	30,132	—	1,290
Total	1,511,689	1,473,916	—	37,773

GENERAL SUMMARY OF CEREAL AND GREEN CROPS, &c.

Decrease in 1872.	Acres.	Acres.
Cereal Crops	33,361	} 68,028
Flax	34,667	
Green Crops	37,773	
Meadow and Clover	29,114	

Total Decrease in the extent of Land under
Crops in 1872..... 134,915

The extent under Crops, Grass, Fallow, Woods, and Planta-
tions, and Bog and Waste *unoccupied*, in 1871 and 1872, is
given by Provinces in the following table—

PROVINCES.	Extent under Crops.	Grass.	Fallow.	Woods and Planta- tions.	Bog and Waste Unoccupied	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
LEINSTER.....	{ 1871 1,604,658	2,482,661	7,458	102,567	640,377	4,837,921
	{ 1872 1,565,871	2,548,264	6,408	101,693	627,685	5,934,789
MUNSTER.....	{ 1871 1,358,978	3,326,035	3,686	108,752	1,137,338	5,910,787
	{ 1872 1,319,461	3,354,055	7,009	111,830	1,142,434	5,310,787
ULSTER.....	{ 1871 1,904,485	2,179,427	7,060	63,678	1,165,137	4,233,186
	{ 1872 1,873,742	2,224,555	4,069	61,033	1,156,368	4,233,186
CONNAUGHT...{	{ 1871 753,316	2,083,162	2,416	49,993	1,344,309	4,233,186
	{ 1872 739,448	2,114,639	1,006	50,617	1,327,486	4,233,186
Total	{ 1871 5,621,437	10,071,285	20,620	324,990	4,257,361	20,325,693*
	{ 1872 5,486,522	10,241,513	18,512	325,173	4,253,973	

* Exclusive of the larger Rivers, Lakes, and Tideways.

The acreage under the head of "Bog and Waste *unoccupied*,"
had not any Live Stock on it at the period of the enumeration.
The area under the several Crops in each year from 1868
to 1872 inclusive, was as under—

CROPS.	1872.	1871.	1870.	1869.	1868.
	Acres.	Acres.	Acres.	Acres.	Acres.
Wheat.....	244,451	238,189	259,846	280,460	285,150
Oats.....	1,621,613	1,636,136	1,650,039	1,655,240	1,701,645
Barley.....	218,894	220,979	241,255	221,710	186,318
Bere and Rye.....	9,895	11,555	11,797	11,183	9,906
Beans and Peas.....	11,762	10,913	10,689	9,955	9,960
Potatoes.....	991,802	1,058,434	1,043,553	1,041,902	1,034,681
Turnips.....	346,464	327,035	338,069	322,072	320,094
Mangel and Beet Root....	34,920	31,921	25,400	21,129	19,109
Cabbage.....	39,395	33,008	34,979	32,265	32,875
Carrots, Parsnips, and other Green Crops.....	31,203	29,869	27,712	26,501	26,622
Vetches and Rape.....	30,132	31,422	27,990	25,395	22,993
Flax.....	122,003	156,670	194,910	229,252	206,483
Meadow and Clover.....	1,799,630	1,829,044	1,773,851	1,670,716	1,692,135

It appears from the following Table that the Returns of
Live Stock for 1872 when compared with 1871 show an
increase in the number of Horses of 2,650; of Cattle 80,781;
and of Sheep 28,682; and a decrease of Pigs amounting to
236,037.

The following are the numbers of Live Stock for each year
from 1862 to 1872, inclusive—

Years.	Number of Horses.	Number of Cattle.	Number of Sheep.	Number of Pigs.
1862.....	602,894	3,254,890	3,456,132	1,154,324
1863.....	579,978	3,144,231	3,308,204	1,067,458
1864.....	562,158	3,262,294	3,366,941	1,058,490
1865.....	548,339	3,497,548	3,694,356	1,305,953
1866.....	535,799	3,746,157	4,274,282	1,497,274
1867.....	524,180	3,707,803	4,835,519	1,235,191
1868.....	524,703	3,646,796	4,901,496	889,578
1869.....	528,201	3,733,675	4,651,195	1,082,224
1870.....	532,667	3,799,912	4,336,884	1,461,215
1871.....	538,095	3,976,372	4,233,435	1,621,423
1872.....	540,745	4,057,153	4,262,117	1,385,386
Diffence in numbrs. between 1871 and 1872.....	Increase, 2,650	Increase, 80,781	Increase, 28,682	Decrease, 236,037

The total estimated value of Horses, Cattle, Sheep, and Pigs this year is £37,117,517, being an increase of £282,781 when compared with 1871, as appears by the following table—

Years.	Horses.	Cattle.	Sheep.	Pigs.	Total Value.	
					£	£
1862.....	4,223,152	21,158,785	8,801,745	1,442,905	31,224,587	
1863.....	4,639,424	20,437,501	9,639,024	1,334,322	30,050,671	
1864.....	4,497,264	21,204,911	3,703,635	1,323,100	30,728,910	
1865.....	4,386,712	22,734,062	4,063,792	1,632,441	32,817,007	
1866.....	4,286,392	24,350,020	4,701,715	1,871,693	36,209,715	
1867.....	4,183,440	24,100,719	5,319,071	1,543,989	35,157,219	
1868.....	4,197,624	23,704,174	5,391,646	1,066,972	34,350,416	
1869.....	4,225,608	24,268,888	5,116,314	1,352,780	34,963,590	
1870.....	4,261,256	24,698,428	4,770,572	1,826,519	35,557,775	
1871.....	4,304,760	25,846,418	4,666,779	2,026,779	36,834,736	
1872.....	4,325,960	26,371,495	4,688,329	1,731,733	37,117,517	
Difference in Value between 1871 and 1872.....	£21,200	Increase, £525,077	Increase, £21,550	Decrease, £295,046	Increase, £282,781	

SCUTCHING MILLS.—The number of Mills for scutching Flax in each province in 1871, was: In Ulster, 1,391; Leinster, 40; Munster, 35; Connaught, 33—making in all 1,499.

EMIGRATION.—In the first seven months of 1871 the Returns of Emigrants from the several ports of Ireland show that 49,155 persons left this country. The number for the same period in 1872 was 54,995, being an increase of 5,840 persons during this year.

LABOURERS' DWELLINGS.—It is scarcely possible, both on social and sanitary grounds, to exaggerate the importance of improving the dwellings of the labouring classes; the Legislature has enabled the Treasury to grant loans for this most desirable object through the medium of the Board of Public Works, Dublin. According to the Census of 1861, the number of fourth-class houses in Ireland, each of which had but one room for the entire family of every age and sex, was 89,374, and in these were living nearly half a million of persons.

WEEDS.—Although great improvement in the breeds and value of every description of Farm Stock has taken place in Ireland since 1841—when the collection of these Statistics commenced—it must be admitted that a corresponding improvement has not taken place in tillage and cultivation. At the present moment this is but too apparent on farms generally. On several occasions I felt it my duty to call attention to the great injury arising from the unchecked growth of weeds which is, unhappily, permitted in almost every part of the country, and also on the sides of roads, railways, and canals. At the recent annual meeting of the Royal Agricultural Society in Belfast, the noble President, Lord Lurgan, K.P., referred to “the necessity of acting on the suggestion thrown out in the Report of the Registrar-General for 1856, in relation to the extirpation of weeds. They did a deal of mischief, and he thought they should carry out the sentence which the old Scotch law pronounced, declaring anyone to be a traitor who poisoned the Queen's land with weeds.”

I again beg to repeat my respectful acknowledgments to the landed proprietors, tenant farmers, the clergy of all denominations in Ireland, and to the public press, for a continuance of

the generous and valuable assistance which I have now for more than twenty years experienced in connection with these Statistics.

I have the honour to be,
Your Excellency's very faithful servant,
General Register Office, **WILLIAM DONNELLY,**
Charlemont House, Dublin, Registrar-General.
4th September, 1872.

WIRRAL AGRICULTURAL SOCIETY.

The entries of horses numbered 146; four donkeys were entered for the special prizes offered by the Birkenhead branch of the Royal Society for the Prevention of Cruelty to Animals; the entries of cattle were 80, of sheep 72, of pigs 20, of fowls, geese and turkeys 174, of pigeons 162, of dogs 222. In the agricultural produce, the show was bare indeed. There was one specimen of new wheat shown by Mr. W. R. Gray, of Thurston, as acting executor for the late Mr. Henan, of Dawpool; and two specimens of barley by Mr. Blythe B. Brown, of Manor-house Farm, Barston. There were some excellent mangolds on a stand in the flower-show tent, but the turnips adjoining them, considering the amount of moisture that has prevailed this summer, were aptly described by a rustic as “no great shakes.” The show of agricultural implements was a mere pretence, Messrs. Lewis and Co., of the Salopian Ironworks, Shrewsbury, being the only firm that put in an appearance. In some departments, however, the show was strong. The horses throughout were a good class, and the entries were numerous. In regard to cattle, it was evident that the struggle which has been going on for some years in the governing councils of the Society had affected the show, but whether prejudicially or not is a moot point. It has long been a complaint by the small tenant-farmers of the hundred of Wirral that a competition specially intended for their encouragement and advancement was thrown open to all comers, and that the best prizes at the Society's annual show were invariably swept off by exhibitors from beyond the Society's district. But considering the reluctance which many entertain, in the prevalence of foot-and-mouth disease, to send their healthy stock into a public show-yard, the collection must be pronounced on the whole good, and some individual beasts excellent. There was a decided falling off, owing to the same causes, in the general entries of sheep, but the special prizes to exhibitors within the hundred had the effect of drawing out some new names among the home competitors. The pigs were not over numerous, but of a good sort. Judges were: Horses (hunters and roadsters), the Hon. Colonel Cholmondeley, Abbott's Moss, Nantwich; W. Lort, The Cotteridge, King's Norton; W. Cropper, Horn-castle. Horses (agricultural): J. Dale, Liverpool; W. Webster, Old Stone House, Litherland; J. Monk, Seacombe, Birkenhead. Cattle: — Morton, Skelmergh Hall, Kendal; — Pickering, Poulton; — Bayne, Pensby. Sheep: J. Ferguson, George-street, Birkenhead; — Shepherd, Eaton Farm, Chester. Pigs: J. Hindson, Liverpool. Poultry and pigeons: W. Tegetmeir, Finchley. The prize list has nothing beyond a local interest.

THE CATTLE PLAGUE.—The magistrates for the liberty of Peterborough have held a special meeting for the purpose of considering an application made by many farmers and cattle dealers in the neighbourhood, that the bench would close all fairs and markets in the liberty, and would also use their influence with the magistrates of the adjoining county of Huntingdon and other local authorities, to induce them to take similar precautions. The bench unanimously decided to close all markets in the liberty for sale of cattle from the 16th September instant until the 28th day of October next, and also to prohibit the movement of all cattle into and within the liberty without a licence. Lord Kesteven said several of the Huntingdonshire magistrates had expressed their intention to adopt similar precautions and to close the large annual fair for cattle known as Peterborough Bridge Fair, so not after the stand-still policy of *The Times* with its social, political, and hero-worship traditions, but by treating the thing strictly as a matter of business.

HUNTINGDONSHIRE AGRICULTURAL SOCIETY.

MEETING AT RAMSEY.

On the whole the exhibition was a fair average one, and notwithstanding the ravages of foot-and-mouth disease in the neighbourhood, there were good entries of cattle and sheep. The number of horses entered was 88, against 83 last year. The Hunter cup of £25, in class 7 produced a competition of 11 animals, and was awarded to Mr. C. C. Hayward, Southill, Beds. Mr. A. W. Marshall's £10 cup for the best mare and foal for hunting purposes produced a show of 8 animals, and the prize was given to Mr. Wooll, of Hartford, for a black mare and foal. The number of entries for breeding and store stock was 45 against 33 of last year, showing an increase of 8. The President offered a cup of 20 guineas for the best cow in class 4, which was easily taken by Mr. Looker, Wyton. A silver cup for the best animal in any class, which was awarded to Mr. How, of Broughton; Mr. J. Whittoime, of Ramsey, taking the first prize in class 9 for a red steer three-years-old. In sheep there was also an increase in the number of entries, 51 against 45 last year. Mr. T. Gunnell, of Milton, secured first prizes in classes 1 to 6 inclusive, and the £10 cups for a pen each of ewes and lambs. Mr. Street, of Harrowden, showed some Downs in class 11, which took first premium. The show of pigs was on a par with that of last year. There was a falling off in the poultry classes, the entries being 189 against 163 last year.

PRIZE LIST.

JUDGES.—Horses: J. Nix, Chatteris; W. Sieman, Buckworth; J. Martin, Wainfleet; and J. Manning, Orlingbury. Cattle and Roots: C. Howard, Biddenham; and W. Little, Littleport. Sheep and Pigs: J. H. Caswell, Laughton, Falkingham; and H. Sworder, Orwell Manor, Royston.

HORSES.

Stallions for agricultural purposes.—First prize, £15, R. H. Ekins, Wennington; second, £7, J. Flintham, Somersham.

Cart mares and foals.—First prize, £10 cup, I. Jones, Wimblington, Isle of Ely; second, £3, T. Gunnell, Milton, Cambs.

Cart mares, not over six years old, without foals.—Prize, £4, E. Vawser, Holme.

Two-year-old cart geldings.—First prize, £4, H. Vawser, March; second, £2, T. and S. Fyson, Warboys.

Two-year-old cart fillies.—First prize, £4, H. Purser, Wilington Manor, Beds; second, R. H. Ekins.

Best animal in two preceding classes.—£5 cup, H. Vawser.

Cart foals.—Prize, £2 2s., —, Jones, Wimblington.

Mares or geldings, above four and under five years old, for hunting purposes.—First prize, £25 cup, C. C. Hayward, Southill, Beds. Highly commended: S. Pashler, Molesworth.

Mares or geldings, five years old and upwards.—£10 cup, C. C. Hayward.

Hunting mares and foals.—£10 cup, —, Wooll, Hartford.

Roadster mares or geldings, above five years old, over 14 and not exceeding 15 hands 2 inches.—£5 cup, T. Golden, Benwick.

Ponies, not exceeding 13 hands.—Prize, £2 2s., C. Whittoime, jun., Doddington.

Juniper.—£5 cup, C. C. Hayward.

SHORTHORNS.

Bulls, not under two years old.—First prize, £8, J. How, Broughton; second, £4, B. Brown, Huntingdon.

Bulls under two years old.—First prize, £6, J. How; second, £3, G. Brown, Pidley Heath.

Cows, in milk or in calf.—First prize, £5, J. How; second, £3, J. How.

Cows adapted for dairy purposes, not eligible to be entered in the Herd Book.—Cup, value 20 gs., and first prize, £5, Looker, Wyton Manor; second, £3, B. How, Broughton.

Heifers, over two and under three years old.—Prize, £4, J. How.

Heifers, under two years old.—First prize, £3, J. How; second, £1 10s., J. How. Highly commended: C. Daintree, Fenton.

Steers, over two and under three years old.—Prize, £5, C. Daintree; second, £2 10s., C. Daintree.

Steers, under two years old.—Prize, £3, C. Daintree.

Pair of steers, of any age or breed, not being pure-bred Shorthorns.—First prize, £4, J. Whittoime, Ramsey; second, £2, G. E. Daintree, Fenton.

Best animal in foregoing classes.—Cup, value 20 gs., J. How.

SHEEP.

LONGWOOLS.

Shearling wethers.—First prize, £4, T. Gunnell, Milton, Cambs; second £2, —, Wooll.

Shearling ewes.—First prize, £4, T. Gunnell; second, £2, —, Wooll.

Ewes that have suckled lambs to the 1st of June.—First prize, £4, T. Gunnell; second, £2, —, Wooll.

Wether-lambs.—First prize, £4, T. Gunnell; second, £2, J. T. Roseblade, Hilton.

Ewe-lambs.—Prize, £4, T. Gunnell.

Tup-lambs.—Prize, £4, T. Gunnell.

SHORT-WOOLLED OR MIXED BREED.

Shearling wethers.—First prize, £4, F. Street, Harrowden; second, £2, F. Street.

Shearling ewes.—Prize, £4, F. Street.

Ewes that have suckled lambs to the 1st of June.—Prize, £4, Battcock, Hemingford Abbots.

Wether-lambs.—First prize, £4, F. Street; second, £2, F. Street.

Ewe-lambs.—First prize, £4, F. Street; second, £2, Battcock.

Best pen of ewes.—£10 cup, T. Gunnell.

Best pen of lambs.—£10 cup, T. Gunnell.

Best ram.—£5 cup, —, Wooll.

PIGS.

Boars of the large breed.—First prize, £3, Looker; second, £1 10s., G. E. Daintree.

Boars of the small breed.—First prize, £3, S. Deacon, Polebrook; second, £1 10s., G. E. Daintree.

Breeding or suckling sows of the large breed.—First prize, £3, J. Flintham, Somersham; second, £1 10s., T. W. Watson, St. Ives Hill.

Breeding or suckling sows of the small breed.—Prize, £3, Earl of Carysfort, Elton Hall.

Three yelts, over six and under twelve months old.—First prize, £3, Looker; second, £1 10s., J. Clifton, Houghton Hill.

Best animal exhibited in the foregoing classes.—£5 cup, Earl of Carysfort.

POULTRY.

To the exhibitor obtaining the greatest number of prizes in the poultry classes, a £5 cup to —, Yardley of Birmingham.

ROOTS.

20 Globe Mangels.—Cup, value £5 5s., T. Ekins, Warboys.

20 Long Mangels.—Cup, value £5 5s., —, Looker.

20 Carrots.—Cup, value £5 5s., R. H. Ekins, Wenington.

20 Kohl Rabi.—Cup, value £5 5s., —, Cranfield, Buckden.

THE HALIFAX AND CALDER VALE AGRICULTURAL SOCIETY.

MEETING AT HALIFAX.

The show of cattle exhibited by farmers was especially good. This class of animals was more numerous than usual, whilst there was an absence of the animals belonging to gentlemen who have in previous years been large exhibitors at this show; and hence the gentleman's class was not so well represented as on some former occasions. The number of bulls was not so large as we have seen. There was a good show of pigs, but very few sheep. The greatest interest was manifested in the exhibition of horses, of which there was a very large show. The whole class of draught horses was good, and marked a great improvement during the past few years. The roadsters, for which this show used to be famous, were not in such great force as has been the case on previous occasions. There was a numerous display of ponies and cobs; and the hunters were of a very good quality. Of eggs and butter there was a good display, there being more competition in this class than has been the case for some years. The show of vegetables was also very good, especially in turnips and mangolds, for which the weather has been very favourable.

PRIZE LIST.

JUDGES.—CATTLE AND SLEEF: J. Knowles, Wetherby; S. Watkinson, Highgate House, Gargrave. HORSES (hunting and roadsters): T. R. Colton, Eagle Hall, Newark; T. Scott, Grantley Hall, Ripon. HORSES (coaching and draught): J. Kirby, Burton Fields, Stamford Bridge; J. Crawshaw, Ebor Mount, Huddersfield. WOOL: J. Riley, Woodside, Hipperholme; B. Foster, White Shaw, Denholme. PIGS AND ROOTS: H. Ambler, Watkinson Hall, Halifax; G. Hutchinson, Prospect House, York. IMPLEMENTS AND BUTTER: J. F. Crowther, Knowl Grove, Mirfield; W. Gomersall, Otterburn, Skipton.

CATTLE.

(Open to the United Kingdom).

Shorthorn bull, two years old or aged.—Silver Cup, W. Tilston, Barnsley; second prize, J. Rowley, jun., Norton Priory. Highly commended: T. Riley, Ewood Hall.

One-year-old bull.—First and second prizes, H. Fawcett, Leeds. Commended: A. S. Shaw, Back Hall, Southowram.

Bull-calf.—Prize, H. Crossley. Alderney or Guernsey bull.—First prize, T. Riley, Ewood Hall; second, E. Akroyd, M.P.

Shorthorn cow, three years old and aged.—Silver Cup, H. Crossley; second prize, J. R. Armytage, Bradford. Highly commended: T. Hird, Skipton.

Shorthorn cow, two years old and aged.—First and second prizes, H. Crossley.

Shorthorn cow, one year old and aged.—First prize, T. Hird; second, H. Fawcett.

Wye calf.—First prize, T. Riley; second, H. Crossley. Commended: T. Riley.

Alderney or Jersey cow.—First prize, F. Ramsden, Halifax; second, M. L. Magner, Hipperholme. Commended: E. Akroyd, M.P.

Guernsey cow.—Prize, J. Bancroft, Ovenden Wood.

Ayrshire cow.—First prize, J. Greenwood, High Road Well; second and commended, T. Riley.

Dairy cow.—First prize, H. Crossley; second, T. Hird. Commended: T. Marchant, Lightcliffe.

Other breeds.—First prize, T. Riley (Dun Scott); second, T. Riley (Angus and Shorthorn).

(Open to Farmers only).

Shorthorn bull.—Silver Cup, R. Law, Todmorden; second, J. Illingworth, Thornton. Commended: R. Greenwood, Mytholmroyd.

Bull-calf.—First prize, J. Crossley; second, J. Crabtree, Kirkless Park.

Shorthorn cow, three years old or aged.—First prize, J.

Coates, Hartshhead Moor; second, J. Bancroft. Highly commended: W. Redman, Crimsworth.

Two-year-old cow.—First prize, J. Crossley; second, J. Coates. Highly commended: J. S. Wright, Shaw Booth. Commended: T. Robertshaw, Illingworth.

One-year-old cow.—First prize, J. Bancroft; second, W. Sutcliffe, Mytholmroyd. Highly commended: J. Greenwood, Highroadwell.

Wye calf.—First prize, J. Wright, Warley; second, T. Robertshaw.

Dairy cow.—Silver Cup, J. Bancroft; second, S. Murgatroyd, Roebucks. Highly commended: S. Murgatroyd. Commended: J. Robinson, Vicar's Park.

HORSES.

(Open to the United Kingdom).

Hunter.—Silver Cup, value 10 guineas, J. Fearon, Corkickle, Whitehaven; second prize, H. Jewison, Raisthorp, York. Highly commended: W. Armstrong, Keadal.

Leaper above 14½ hands.—Silver Cup (10 guineas), T. E. Ingle, Knottingley; second, C. Sanderson, Womersley Grange; third, H. Johnson, Spofforth.

Leaper under 14½ hands.—Silver Cup and whip, E. S. Bent, Manchester; second prize, C. W. Eastwood, Greetland; third, J. Oakley, Carlton-place, Halifax.

Roadster stallion.—Silver Cup, J. Smith, Skipton; second, J. Gill, Silsden.

Yearling roadster.—First prize, W. Tattersfield and Sons, Heckmondwike; second, J. Holdsworth, Willow field.

Two-year-old roadster.—First prize, J. Crossley, Manor Heath; second, J. Wilde, Holme-on-Spalding.

Three-year-old roadster.—First prize, S. Watkinson, Gargrave; second, A. B. Foster, Northowram Hall.

Four-year-old and aged roadster.—First prize and Silver Cup, T. Clarkson, Leeds; second, R. Mitchell, Bowling Park; third, J. Maude, Leeds.

Mare or gelding for saddle or harness.—Silver Cup, A. B. Foster.

Roadster mare and foal.—First prize, J. Wilde; second, W. Sugden, Raistrick. Highly commended: Rev. R. C. Willford, Lindley; J. F. Crowther, Mirfield; A. Greenwood, Rough, Stansfield.

Draught stallion.—Silver Cup, J. Forshaw, Burley-in-Wharfedale; second prize, J. Edmondson, Extwistle.

Yearling draught colt or filly.—First prize, M. Toder, West Burton, near Lincoln; second, I. Firth and Sons, Halifax.

Two-year-old draught colt or filly.—First prize, Ogden and Lumb, Mytholmroyd; second, H. Greenwood, Calverley.

Three-year-old draught colt or filly.—First prize, G. Dibb; second, J. Akroyd and Son, Halifax.

Four-year-old or aged draught mare or gelding.—Silver Cup, C. W. Brierley, Middleton; second, J. Smith, Wharf Mills, Huddersfield.

Draught mare or gelding, not exceeding 16½ hands, the property of a Halifax tradesman or farmer.—Silver Cup, R. Midgley, Netherton Mills; second, H. Tonge, Willow House. Highly commended: J. Evans, Forrest Villas.

Pair of Draught horses.—First prize, C. W. Brierley; second, J. Maude, West Vale.

Draught mare and foal.—Prize, J. Singleton, Coley Walks Farm.

Carriage horse.—Silver Cup, E. Charlesworth, Bradford; second prize, J. W. Kenyon, Shepley.

Lady's pad.—Silver Cup, H. Crossley; second prize, F. C. Matthews, Driffield.

Mounted cob.—Silver Cup, H. Crossley; second prize, E. Charlesworth; third, J. F. Crowther. Highly commended: T. Gaukroger, Clarendon Place, Halifax.

Mare or gelding for harness.—Silver Cup, H. Crossley; second prize, C. Mills, Bradford.

Pony not exceeding 13½ hands.—Silver Cup, C. Forsyth, Halifax; second prize, J. Anderton, Northgate, Halifax.

Mounted pony above 12 and not exceeding 13½ hands.—First prize, C. Forsyth; second, J. Maude; third, G. Hood, Bowden.

Mounted pony not exceeding 12 hands.—First prize, F. Mozey, Leeds; second, T. Wood, Range Bank, Halifax. Highly commended: W. F. Fox, Dewsbury.

SHEEP.

Ram of any age or breed.—Prize, M. Lamb, Otley.

Pen of three Leicester ewes.—First prize, M. Lamb; second, H. Crossley.

WOOL.

Two fleeces Northumberland long-wool.—First prize, D. Parker and Co., Halifax; second, F. Sutcliffe, Halifax. Commended: T. Marchant and Co., Halifax.

Two fleeces Northumberland wether wool.—First prize, D. Parker and Co.; second, Anderson Brothers, Halifax. Commended: T. Marchant and Co.

Two fleeces Irish wether wool.—First prize, W. Appleyard and Son, Halifax; second, L. Walker, Halifax.

Two fleeces Midland Counties hogg wool.—First prize, C. Wiley, Bradford; second, Stansfield and Co., Halifax.

Two fleeces Midland Counties wether wool.—First prize, Stansfield and Co.; second, Whitaker and Broadbent, Halifax. Commended: J. Holdsworth, Halifax.

Two fleeces South Country hogg wool.—First prize, W. Appleyard and Son; second, J. Holdsworth. Commended: Anderson Brothers.

Two fleeces South Country wether wool.—First and second prizes, J. Holdsworth.

PIGS.

Boar, large breed.—First prize, P. Eden, Salford; second, C. R. N. Beswicke-Royds, Littleborough.

Boar middle breed.—First prize, J. E. Fox, Great Horton; second, C. R. N. Beswicke-Royds.

Boar small breed.—First prize, P. Eden; second, C. R. N. Beswicke-Royds.

Black boar.—First prize, T. Gaukroger, Halifax; second, C. R. N. Beswicke-Royds. Highly commended: H. Crossley, Watkinson Hall.

Black boar, under six months old.—First and second prizes, P. Eden. Highly commended: G. Spenceley, Halifax.

Sow and litter.—First prize, P. Eden; second, H. Crossley.

Sow, large breed.—First prize, P. Eden; second, W. Firth, Shipley Moor Colliery.

½ Sow, middle breed.—First and second prizes, W. Parker, Bradford. Highly commended: P. Eden.

Sow, small breed.—First prize, C. R. N. Beswicke-Royds; second, P. Eden.

Black sow.—First prize, C. R. N. Beswicke-Royds; second, M. Walton, Halifax. Highly commended: T. Gaukroger.

Gilt, under six months.—First prize, T. Gaukroger; second, H. Crossley.

Black gilt, under six months.—First and second prizes, M. Walton.

Store pig, small breed.—First prize, F. Bramfitt, Leeds; second, W. Jackson, Halifax. Highly commended: C. F. Hallas, Huddersfield.

Store pig, black breed.—First prize, M. Walton; second, T. Gaukroger. Commended: J. Priestley, Bowling.

Pig above six months (open to working men within the parish of Halifax).—Silver Cup, S. S. Jackson, Halifax; second, G. Womersley, Hipperholme. Commended: C. G. Barber, Lightcliffe; and S. Fawthrop, Hipperholme.

Gilt under six months.—Silver Cup, J. Richardson, Halifax; second, W. Dawson, Coley. Highly commended: W. Dewhirst, Hipperholme. Commended: J. Richardson.

Boar, middle breed, open only to first prize pigs.—Cup, C. R. N. Beswicke-Royds.

Sow, middle breed, open only to prize sows.—Silver Cup, W. Parker.

Black boar, open only to prize pigs.—Silver Cup, T. Gaukroger.

ROOTS.

Turnips.—First and second prizes, W. Driver, Grove-house, Southwram. Commended: Crossley.

Mangel wurzel.—First prize, F. R. Rawson, Thorp; second, J. Carter, Lightcliffe.

Kohl-rabi.—First prize, F. E. Rawson; second, H. Crossley. Commended: T. Riley, Ewood-hall.

BUTTER.

First prize, E. Akroyd, M.P., Bank Field; second, T. Marchant, Lightcliffe.

IMPLEMENTS.

Plough.—Prize, J. Robinson, Leeds.

Pair of harrows.—First and second prizes, J. Robinson.

Haymaker.—First prize, J. Robinson; second, T. and F. Roper, Halifax.

Haycutter.—First prize, J. Robinson; second, T. and F. Roper.

Turnip cutter.—First and second prizes, J. Robinson.

Washing machine.—First prize, J. M. Rimmington and Co. Newcastle-on-Tyne; second, Thorough Washing Machine Co., Burnley.

THE STAFFORDSHIRE AGRICULTURAL SOCIETY.

MEETING AT STAFFORD.

The prevalence of foot-and-mouth disease, together with an absurd rule here tried for the first, and, as it is to be hoped, for the last time, conducted to a miserably poor show in the very capital of the county. The entries in most of the classes were small, and many of these were not sent. Under the new regulation, Mr. Bradburn was not permitted to exhibit his Cardiff stock, and there was scarcely an animal of any repute in a show which in six classes barely reached in all to twenty Shorthorns! In fact, amongst the cattle there was just one creditable class of dairy cows shown in pairs, and one very good fat cow from Wednesfield. The Leicesters or other long-woolled sheep seldom exceeded two competitors in each class, and the sheep shown were wofully inferior; while there were eight entries of Shropshire old sheep, and about a dozen shearlings, Mrs. Beach having the best of it. There was a small exhibition of pigs, occasionally with no competition whatever, Mr. Mathew Walker having it all his own way with large, small, and Berkshires. That beautiful Clydesdale, Young Lofly, took the first prize for cart stallions, an exception being made with

Cardiff horses; and Mr. Stubbs, of Burston, won with a capital brown cob. The extra stock, into which the Cardiff animals were admitted to show for medals, numbered in all one Shropshire sheep, a couple of Alderneys, a couple of Shorthorns, and half-a-dozen nondescript horses. There was, however, a very fine show of judges and stewards, those who had previously appeared at Cardiff being fortunately not excluded.

PRIZE-LIST.

JUDGES.—SHORTHORNS AND FAT CATTLE: R. J. Newton, Campfield, Woodstock; G. H. Sanday, Holme Pierpoint, Nottingham. SHROPSHIRE SHEEP AND PIGS: T. Horley, The Fosse, Leamington; T. Mansell, Ercall Park, Shrewsbury. DAIRY COWS AND LEICESTER SHEEP: F. Spencer, Claybrook, Lutterworth; E. Little, Lanhall, Chippenham. AGRICULTURAL HORSES: H. Lowe, Comberford; W. Wright, Hollington, Longford. HUNTING HORSES, HACKS, AND COBS: C. Randell, Chadbury, Evesham; J. Boote, Weston Hall, Crewe. CHEESE IN YARD AND BUTTER: H. Smith, Clifton; Mr. Pakeman, Derby. CHEESE IN CHEESEROOM: H. E. Emberlin, Leicester; C. Mills, Wol-

verhampton. IMPLEMENT TRIALS: J. J. Rowley, Rowthorne; R. Craven, Uttoxeter. IMPLEMENTS IN YARD AND CORN AND ROOTS: G. B. Keeling, Hampton House; J. Brewster, Balderton Hall. POULTRY: E. Hewitt Sparkbrook.

SHORTHORNS.

Bulls.—First prize, £10, and Society's silver medal, T. Nash, Featherstone; second, £5, O. Bennion, Cresswell, Stafford.

Yearling bulls.—First prize, £10, and Society's silver medal, T. Nash; second, £5, F. Stanier-Broade, Betley Hall, Crewe.

Bull-calf.—First prize, £5, A. Robotham, Drayton Bassett; second, £2 10s., O. Bennion.

Cows.—First prize, £6, T. Nash; second, £4, W. Bradburne, Wednesfield. Highly commended: Rev. J. K. Dunne, Cresswell, Cheadle.

In-calf heifers in pairs.—First prize, £6, O. Bennion; second, £4, C. Hopper, Stafford.

Heifers in pairs.—First prize, £5, A. Robotham; second, £3, C. Stubbs, Preston Hill, Penkridge.

DAIRY CATTLE.

Bulls.—First prize, £10, and Society's silver medal, G. Bagnall, Draycot; second, £5, G. Swift, Hanchurch.

Cows in pairs.—First prize, £10, and second, £5, T. C. Smith, Birdsgrove, Ashborne.

In-calf heifers in pairs.—First prize, £5, T. Nash; second, £3, Mrs. H. M. Peake, Lammascote, Stafford.

Heifers in pairs.—Prize, £4, M. Walker, Stockley Park, Anslow.

FAT CATTLE.

First prize, silver cup, value £10, W. Bradburn (Moss Rose); second, £5, J. Tyrer, Tixall Hall. Highly commended: W. Bradburn (Miss Chesterfield).

SHEEP.

LEICESTERS OR OTHER LONGWOOLS.

Ram.—First prize, £5, and second, £3, R. Johnson, Upperfield, Wirksworth.

Shearling ram.—First prize, £5, second, £3, and Society's silver medal, R. Johnson.

Ram-lamb.—First prize, £3, and second, £2, R. Johnson.

Breeding ewes.—First prize, £3, R. Johnson; second, £2, A. Bryer, Quarndon, Derbyshire.

Shearling ewes.—First prize, £3, R. Johnson; second, £2, A. Bryer.

Ewe-lambs.—Prize, £2, A. Bryer.

SHROPSHIRE.

Ram.—First prize, £5, S. Beach, The Hattons, Brewood; second, £3, W. Marson, Butterhill, Stafford.

Shearling ram.—First prize, £5, and Society's silver medal, S. Beach; second, £3, C. Byrd, Littywood, Stafford.

Ram-lamb.—First prize, £3, C. Byrd; second, £2, R. Wyatt, Acton Hill, Stafford. Highly commended: W. Stubbs, Stockton. Commended: M. Cotton, Green Fields, Bradley.

Breeding ewes.—First prize, £5, R. Wyatt; second, £3, C. Smith, Kirk Langley, Derbyshire.

Shearling ewes.—First prize, £5, C. Timmis, Brickhouse, Stafford; second, £3, S. Beach.

Ewe-lambs.—First prize, £3, C. Byrd; second, £2, R. Wyatt. Commended: W. Grindley, Weeping Cross.

PIGS.

Boar of a large breed.—First prize, £3, and Society's silver medal, H. Tomlinson, Blithford; second, £2, M. Walker. Commended: M. Walker.

Breeding sow of a large breed.—First prize, £3, M. Walker; second, £2, H. Robson, Penkridge.

Boar of a small breed.—First prize, £3, and Society's silver medal, M. Walker; second, £2, F. W. Meynell, Coxbench Hall, Derby.

Breeding sow of a small breed.—Prize, £3, M. Walker.

Boar of the Berkshire breed.—First prize, £3, and Society's silver medal, M. Walker; second, £2, R. Wyatt. Highly commended: Dr. Hewson, Coton Hill, Stafford.

Breeding Berkshire sow.—First prize, £3, and second, £2, Dr. Hewson.

Pen of not less than three pigs, large breed.—First prize, £3, and second, £2, M. Walker.

Pen of not less than three pigs, small breed.—First prize, £3, and second, £2, M. Walker.

Pen of not less than three pigs, Berkshire breed.—First prize, £3, the Earl of Shrewsbury; second, £2, M. Walker.

HORSES.

FOR AGRICULTURAL PURPOSES.

Entire horses (open to the United Kingdom).—First prize, £25, and silver medal, H. Tomlinson (Young Lofty); second, £15, Yeomans Brothers, Pennymore Hay, Wolverhampton (Pride of England). Highly commended: J. Perkin, Manstey Farm, Penkridge (Young Prince).

Mare and foal.—First prize, £10, H. Tomlinson; second, £6, F. Wood, Castle Farm, Stafford. Highly commended: J. Birch, Pearse Hay, Penkridge.

Two-year-old gelding or filly.—First prize, £6, J. Hawksworth, Barton Fields, Derby; second, £4, J. Birch.

Yearling gelding or filly.—Prize, £6, Stonetrough Colliery Company, Lawton.

HUNTERS.

Weight carriers.—First prize, £20, J. Cooper, The Hollies, Newcastle; second, £10, H. A. Cotton, Alstone.

Light-weight carriers.—First prize, £20, E. H. Martin, Bar Hill House, Madeley; second, £10, G. Swift, Hanchurch, Newcastle.

Horses of not less value than 70 guineas.—First prize, £15, E. H. Martin; second, £10, C. Stubbs.

Mare with a foal for hunting.—First prize, £6, Stonetrough Colliery Company; second, £4, T. James, Shushions Manor, Church Eaton.

Hackney mare or gelding, not exceeding 15 hands 2 inches, four years old or upwards.—First prize, £10, E. H. Martin; second, £5, G. J. Mitchell, Newton Mount, Burton.

Cob, mare, or gelding, not exceeding 14 hands 2 inches.—First prize, £6, J. Stubbs, Burston, Stone; second, £4, G. J. Mitchell.

EXTRA STOCK.—Silver medal, J. Darlington, New Buildings, Stafford (dark brown gelding); silver medal, the Earl of Shrewsbury, Ingestre Hall, Stafford (colt).

CHEESE AND BUTTER.

Thick cheese.—First prize, £6, T. Simon, Ternhill, Market Drayton; second, £4, W. H. S. Kynnersley, Brook House, Uttoxeter; third, £3, G. C. Brayford, Yarlet, Stafford; fourth, £2, T. Ashcroft, Walford, Eccleshall.

Thin cheese.—First prize, £6, W. Smith, Rangemoor Farm, Burton; second, £4, T. C. Smith, Birdsgrove, Ashbourn; third, £3, S. Birchall, Catton, Burton; fourth, £2, W. T. Carrington, Hollington, Uttoxeter. Highly commended: J. Hawksworth. Commended: M. Walker; T. Pakeman, Top Moor, Uttoxeter.

Dairy of cheese.—First prize, £10, T. C. Smith; second, £5, J. Carrington, Croxden Abbey, Uttoxeter. Highly commended: J. Hawksworth, S. Burchall, W. H. S. Kynnersley. Commended: M. Walker; S. Woodward, Etwall, Derby.

Butter.—First prize, £3, E. Sharratt, jun., Longdon, Rugeley; second, £2, W. Aston, Seisdon, Wolverhampton; third, £1, S. Woodward.

CORN AND ROOTS.

Mangolds.—Long red: prize, £2, W. T. Carrington. Globe: prize, £2, W. T. Carrington.

Swede turnips.—Prize, £2, W. T. Carrington.

Ox cabbage.—Prize, W. T. Carrington.

Collection of roots.—Prize, £3, W. T. Carrington.

Late potatoes (any variety).—Prize, £2, F. Shaw, Norton Moss, Stone.

Wheat.—White: first prize, £2, J. Greatorex, Stretton Burton; second, £1, R. H. Masfen, Pendeford, Wolverhampton. Red: first prize, £2, J. Greatorex; second, £1, R. H. Masfen. Talavera: first prize, £2, J. Greatorex; second, £1, R. H. Masfen.

Barley.—Prize, £2, J. Greatorex.

Oats.—First prize, £2, J. Greatorex; second, £1, W. Shaw, Cold Norton, Stone.

IMPLEMENTS.

Forder and Co., Wolverhampton, for landaus and other vehicles, medal. Underhill, Newport, Salop, for superiority of collection, £2. Hathaway, Chippenham, medal, for churn.

Perkins, Yoxall, £1, for a plough, steel-breasted. Corbett, Shrewsbury, medal for a combined blowing, winnowing, and dressing machine; £1 for a double plough; 10s. for a single plough; and 10s. for a clover drill. Massey, Stafford, medal, for a vertical boiler engine. For collection of laundry implements, Bell and Co., London, £1. G. Ball, North Kilworth, Rugby, collection of carts and waggons, medal. Addison & Sons, Stafford, B. B. plough, 10s.; £1 for collection of implements. Bate, Compton Mill, Wolverhampton, medal for corn mill. Rudge and Griffith, Stafford, medal for Corbett's grinding mill, 10s. for a plough fitted with Corbett's revolving harrow,

and £2 for collection. Lea, medal for his models of crossing gates, fog signals, and safety mantelet for rifle shooting. Inman, of Manchester, for rustic garden-houses, seats, £1. Mellard's Trent Foundry (Limited), £2 for collection. Bamford and Son, 10s. for double-chamber cheese press, and £2 for collection. Southwell and Co., Rugeley, £1 for a grist mill, £1 for a chaff engine, and medal for collection. Ball and Son, Rothwell, 10s. for a plough with Lewis's revolving harrow, £1 for a plough, and medal for a double plough. Lewis and Co., Shrewsbury, medal for a two-horse mower. Bradford and Co., Manchester, £1 for laundry machines and other implements.

DURHAM AGRICULTURAL SOCIETY.

MEETING AT DURHAM.

The show was the best ever seen in the county of Durham for Shorthorns and horses.

PRIZE LIST.

JUDGES.—CATTLE, SHEEP, and PIGS: J. Wood, Harewood Hill, Darlington; M. Stephenson, Fourstones; W. Bartholomew, Waddington Heath, Lincoln. **FIELD and HARNESS HORSES:** P. Baldersby, Thirsk; J. Smith, Humberton, Borobridge; W. W. Hawdon, Walkerfield, Staindrop. **AGRICULTURAL HORSES:** W. Potts, Park House, Ponteland; B. Spraggon, Nafferton, Stocksfield-on-Tyne; J. Outhwaite, Baines, Catterick. **IMPLEMENTS:** G. Stratton, Clyde House, Ferryhill; J. Farrington, Brancepeth; G. Atkinson, Seaham Harbour.

SHORTHORNS.

A silver cup of 10 guineas, for the best four Shorthorns, G. Atkinson, Hall Farm, Seaham.

Bulls, any age.—First prize, £10 and silver cup, J. Outhwaite, Baines, Catterick (Royal Windsor); second, £5, W. Linton, Sheriff Hutton, York (Lord Irwin). Highly commended: J. Vickers, Mown Meadows, Crook (Lorenza Villa).

Bulls, under two years.—First prize, £10, Lady Pigot, Branches Park, Newmarket (Rapid); second, £5, W. Linton (Leeman).

Cows in calf or milk, having had a calf within the last twelve months.—First prize, £8, J. Outhwaite (Vivandiere); second, £4, G. Atkinson (St. Crispin). Highly commended: T. H. Hutchinson, Manor House, Catterick (Dairy Maid). Commended: W. H. Raine, Morton Timnouth (Fern Frond).

Heifers in calf, two years old.—First prize, £6, H. Smith, Esh Hall, Durham (Countess); second, £3, C. Charlewood, Padworth, Reading (Matchless). Commended: Lady Pigot (Victoria Victrix).

Heifers, one year old.—First prize, £4, T. H. Hutchinson (Lady Louisa); second, £2, Lady Pigot (Scintilla).

Bull-calves, under 12 months old.—Prize, £3, T. H. Hutchinson (King Cole).

Heifer-calves, under 12 months old.—First prize, £3, Lady Pigot (Rose of Wytham); second, £1, T. H. Hutchinson (Lady Playfair). Commended: T. H. Hutchinson (Pretty Maid).

Bulls, under three years old.—First prize, £5, G. Atkinson (White Duke); second, £2, R. Laycock, Lintz Hall, Burnopfield (Surz).

Cows in calf or milk, having had a calf within the last 12 months.—First prize, £3, G. Atkinson (Bracelet); second, £1, W. H. Raine (Rosalind).

Heifers in calf, two years old.—Prize, £3, G. Atkinson (Red Ruby).

SHEEP.

LEICESTER OR LONG-WOOLLED.

Rams, any age.—First prize, £5, and second, £2, T. H. Hutchinson.

Shearling rams.—First prize, £5, and second, £2, T. H. Hutchinson.

Pen of five ewes, having reared lambs this year.—First prize, £3, and second, £2, T. H. Hutchinson.

Pen of shearling gimmers.—First prize, £3, T. H. Hutchinson; second, £2, F. Tidyman, Wolviston, West Hartlepool.

PIGS.

Boars, large breed.—First prize, £3, R. E. Duckering and Son, Kirton Lindsey; second, £1, W. Lister, Armley, Leeds. Boars, small breed.—First prize, £3, W. Lister; second, £1, R. E. Duckering and Son.

Sows, large breed.—First prize, £2, R. E. Duckering and Son; second, £1, —. Davidson, Constantine, Crook.

Sows, small breed.—First prize, £2, W. Wilson, Armley, Crook; second, £1, R. E. Duckering and Son.

Pigs, the property of a cottager.—Prize, £1, J. Taylor, White House, Easington.

HORSES.

Leaping.—First prize, £10 and silver cup, H. Johnson, Railway Hotel, Spofforth (Annie); second, £5, D. and R. Battye, Myton Old Hall, Helperby, Borobridge (Diplomatist); third, £2, H. Watson, Hilton Grange (Rose of Ruby).

Hunters.—First prize, £10, and silver cup, value £10, W. Armstrong, Wattsfield, Kendal (The Banker); second, £5, H. Jewison, Raisthorpe, York (Landmark).

Mares for breeding hunters.—First prize, silver cup, value £10, B. Spraggon, Nafferton, Stocksfield-on-Tyne (Jess); second, £5, H. Watson, Newbiggin, Filey (Lady Decanter); third, R. Emmerson, Over Dinsdale (Topsy).

Colts for the field, three years old.—First prize, £4, W. Clark, Killyby, Darlington; second, £1, M. and T. Brunton, Howe Hills, Aycliffe, Darlington (Governor).

Fillies for the field, three years old.—First prize, £4, T. Sutton, Middleton-one-Row, Darlington; second, £1, J. Harrison, Glaisdale, Whitby (Miss Patty).

Colts for the field, two years old.—First prize, £3, T. and G. Knowles, Windy Hill, Yarm (Bobby); second, £1, M. Kearney, The Ford, Lancaster (Cavalier).

Fillies for the field, two years old.—First prize, £2, E. Hall, Ricknall Grange, Aycliffe, Darlington (Nancy); second, £1, M. and T. Brunton (Jenny Walker).

Yearling colts for the field.—Prize, £2, W. Johnson, Newbiggin, Sadberge, Darlington.

Yearling fillies for the field.—First prize, £2, R. and P. Hopps (Flying Omid); second, £1, H. Robson, Western Hill.

Harness mares.—First prize, cup and £3, R. Watson, Maltby House, Stockton; second, £2, L. Manfield, Thirkleby Barugh, Thirsk (Blossom).

Colts for harness, three years old.—First prize, £4, G. Robinson, Marton Farm, Middlesborough (Franky); second, £1, R. Crowe, Low Raibsy, Kelloe (Bondholder).

Fillies for harness, three years old.—First prize, £4, I. Searth, Mount Pleasant, West Rounton, Northallerton (Lady Hawthorn); second, £1, Earl Vane, Seaham Hall (Negress).

Colts for harness, two years old.—First prize, £3, J. Harrison, Polham, Darlington (Prince Bismarck); second, £1, J. Leng, Houghton-le-Side, Heighington (Sir David).

Fillies for harness, three years old.—First prize, £3, R. Thompson, Low Hills, Easington (Mary); second, £1, I. Searth (Black Bess).

Yearling colts for harness.—First prize, £2, L. Manfield; second, £1, M. Tinkler, Bishop Middleham.

Yearling fillies for harness.—Prize, £2, Mrs. White, County Hotel, Durham (Lady Sarah).

Foals for the saddle.—First prize, £2 and sweepstakes of

5s. each, H. Watson, Newbiggin; second, 10s., B. Spraggon.
Foals for harness.—First prize, sweepstakes and £2, —. Knaggs, Hardwick House Farm, Thorp Road, Stockton-on-Tees; second, 10s., L. Manfield (Cain).

Cart foals.—First prize, sweepstakes and £2, R. Laycock, Lintz Hall, Burnopfield, by Wellington; second, I. Bewick, Middle Brunton, Newcastle (Honest Tom). Commended: M. Stevenson (Esh).

AGRICULTURAL HORSES.

Cart mares.—First prize, cup and £5, G. Atkinson (Dinah); second, £2, J. Laws, Eachwick Red House, Dalton (Bet).

Cart colts, three years old.—First prize, £4, The Earl of Durham, Bowes House, Durham (Roger); second, £1, W. Hynd, Low Butterby (Tom).

Cart fillies, three years old.—Prize, £4, T. Burdus, jun., Coalpits, Hexham (Blossom).

Cart colts, two years old.—First prize, £3, G. Liddell, Chilton, Ferryhill; second, £1, W. Richardson, Willington Old Hall (Tom). Commended: Earl Vane (Major).

Cart fillies, two years old.—First prize, £3, M. T. Clark,

Pittington Halgarth; second, £1, G. Turnbull, Twizell Hall, Chester-le-Street (Sally). Commended: R. Laycock, Lintz Hall, Burnopfield.

Yearling cart colts.—Prize, £3, M. Wardell, North Pastures Farm, South Shields (Jack).

Yearling cart fillies.—First prize, £2, T. Laidler, Witton Gilbert (Duchesse); second, £1, T. Laidler (Damsel).

Pair of draught horses.—First prize, silver cup and £5, L. Wood, Hetton Hall (Billy); second, £3, Earl Vane (Boxer). Commended: N. Stonehouse and Sons (Victor and Bruce).

Roadsters.—First prize, silver cup, I. Scarth (Charlie); second, £3, T. Clarkson, Melbourne Street, Leeds (Flora).

Ladies' hackneys.—First prize, silver cup, D. Dale, West Lodge, Darlington (Greatheart); second, £5, C. Pease, Green-croft, Darlington (Jessie).

Ponies, mare or gelding, not exceeding 14 hands high.—First prize, £5, J. B. Dale, West Lodge, Darlington (Raby); second, £2, W. Howe, Bondgate, Darlington (Polly).

Ponies, not exceeding 12 hands high.—First prize, £3 and cup, L. Wood (The Baron); second, £1, Earl Vane (Prince).

ROYAL AND CENTRAL BUCKS AGRICULTURAL ASSOCIATION.

MEETING AT AYLESBURY.

Utterly discountenancing the suicidal regulation of the Staffordshire Society, there were a number of animals in the entry at Aylesbury which had previously appeared at Cardiff, and with sundry Royal winners also successful here. The show, indeed, was pretty generally good; with Messrs. George Garne and Mumford exhibiting some highly-bred Shorthorns, the Messrs. Denchfield some of their useful dairy cows, and Mr. Senior giving a variety to the scene with his handsome Devons. Then, amongst the sheep were Lord Chesham's Shropshires, but with a far stronger display of Oxfordshire Downs from the flocks of Mr. Treadwell, Mr. Longland, Mr. F. Street, Mr. Stilgoe, and others; while Mr. Biggs, Mr. R. Fowler, and Mr. Treadwell sent in some of their well-known Berkshire pigs. Still, the strong feature of the meeting was the horse show, which the judges, both tried hands here, declared to be the best ever seen in Aylesbury. The hunters were especially excellent, but Mr. Lepper maintained his lead, and won with an own brother to the famous prize stallion Dalesman, who by the way, has again changed hands, having just been purchased of Lord Spencer by Mr. Henry Chaplin for the use of his Lincolnshire tenants. There is no stopping Mr. Lepper, who is a farmer as well as a V. S.; but surely it was scarcely the Baron's intention that his cup should be won year after year by Lord Norreys' racing yearlings? As it seems to us the competition in this class should be confined to stock bred by *bona fide* farmers in the country over which the stag-hounds hunt. Considering that they rear ducks in their best bedrooms and geese in their front parlours at Aylesbury, there was of course a capital show of all sorts of poultry; as from what occurred at the dinner it would appear that the very people have taken to crowing and cackling at anything or anybody who pleases or displeases them.

PRIZE LIST.

JUDGES.—PLOUGHING AND PIGS: J. Tompkins, Irvinghoe; C. Hedges, Eaton Bray. HORSES: J. Bulford, Hordley, Woodstock; J. K. Elliott, Heathencote, Towcester. CATTLE: J. Faulkner, Dadford, Buckingham; T. Bates, Eaton Green, Luton. SHEEP: J. Terry, Pailowes, Aylesbury; J. Bryan, South Lee, Witney. BUTTER: H. Pybus, jun., Metropolitan Meat Market, London. ROOT CROPS: E. Denchfield, Burston, Aylesbury; R. Fowler, Broughton, Aylesbury. ROOTS IN THE YARD: C. Elliott, Hulcot,

Aylesbury; T. W. Morris, Bedgrove, Aylesbury. POULTRY: Rev. G. F. Hodson, North Petherton, Bridgewater.

HORSES.

FOR AGRICULTURAL PURPOSES.

Geldings, three years old and upwards.—First prize, £5 5s., E. H. Baylis, Hogston; second, £2, W. Cox, Denham.

Geldings, under three years.—First prize, £5 5s., T. S. Sutton, Thame; second, £2, Mary White, Pollicott. Commended: J. Hughes, Whaddon Hill.

Mares, over three years old.—First prize, £5 5s., F. Street, Harrowdon House; second, £2, E. M. M. Lucas. Highly commended: E. Terry, Quarrendon.

Mare and foal (the foal to be dropped in 1872).—First prize, £5 5s., J. and E. Denchfield; second, £2, J. Treadwell, Winchendon. Commended: W. Cooper, Winchendon.

Mares under three years.—First prize, £5 5s., W. Flowers, Beachendon; second, £2, J. and E. Denchfield, Burston.

Yearling cart colt or filly.—Prize, £10 10s., J. Hughes. Commended: W. and J. Rose, Eythrope.

RIDING HORSES.

Horses or mares, for hunting purposes.—First prize, £7 7s., G. A. Lepper, Aylesbury (Brother to Dalesman); second, £3 3s., G. Lepper.

Nag geldings or mares, for riding and general purposes.—First prize, £5 5s., E. Terry; second, £2, G. A. Lepper.

For the best hunter, horse or mare (jumping to be a point of merit).—First prize, £21, A. R. Howland, Thame; second, Lord Norreys, Tetsworth. Commended: G. A. Lepper.

Sacking colt or filly.—Prize, £10 10s., J. Elliott, Wendover Dean.

A silver cup for the best yearling colt, Lord Norreys, Tetsworth.

CATTLE.

Bulls, any breed, two years old and upwards.—First prize, £5 5s., G. Garne, Churchill, Heath; second, J. A. Mumford, Chilton (Caballer).

Bulls under two years.—First prize, £5 5s., J. A. Mumford (Notley); second, £2, J. and E. Denchfield, Burston (Sir Launcelot).

Cows in-milk or in-calf.—First prize, £5 5s., G. Garne; second, £2, J. and E. Denchfield. Highly commended: T. L. Senior, Broughton House.

Three cows in-milk or in-calf.—First prize, £10 10s., J. and E. Denchfield; second, £5 5s., J. and E. Denchfield. Highly commended: J. A. Mumford.

Heifers in-milk or in-calf, under three and over two years old.—First prize, £5 5s., T. L. Senior (First Fruit); second, £2, G. Garne. Highly commended: T. L. Senior (Lady Elith).

Heifers (in pairs) under two years old.—First prize, £5 5s., G. Underwood, Little Gaddesden (Sweet Briar); second, £2, J. A. Mumford (Damask Rose).

Fat cows.—First prize, £5 5s., G. Garne; second, £2, T. L. Senior.

Fat oxen (any breed) under three years and six months old.—Prize, £5 5s., T. L. Senior.

SHEEP.

Rams, any breed.—First prize, £5 5s., F. Street, Harrowden House, near Bedford; second, £2 2s., J. Treadwell, Winchendon. Highly commended: J. Treadwell. Commended: J. Wheeler and Son, Long Compton.

Five (store) ewe-lambs for breeding purposes.—First prize, £5 5s., G. Underwood; second, £2, E. Freeman, Chilton. Highly commended: E. Freeman.

Five fat ewes, any breed or age.—First prize, £5 5s., Lord Chesham, Latimer; second, £2, J. Treadwell.

Five fat wethers.—First prize, £5 5s., Lord Chesham; second, £2, N. Stilgoe, Adderbury Grounds, Banbury.

Five ewes of any breed, intended for breeding purposes.—First prize, £5 5s., J. Treadwell; second, £2, R. Fowler. Commended: G. Underwood.

Five Shropshire ewes, intended for breeding purposes.—First prize, £5 5s., R. Fowler; second, £2, Lord Chesham.

Five theaves (any breed) intended for breeding purposes.—First prize, £5 5s., J. Longland, Grendon; second, £2, Lord Chesham. Highly commended: F. Street.

PIGS.

Boars, any breed.—First prize, £3 3s., J. Biggs, Cublington; second, J. Wheeler and Sons. Highly commended: J. Wheeler and Sons.

Sows (any breed) either in-pig or with litter.—First prize, £5 5s., R. Fowler; second, £2, J. Treadwell. Highly commended: J. Biggs. Commended: E. C. Clarke, Haddenham.

Three fat pigs.—First prize, £3 3s., W. Cooper, Winchendon; second, £2, J. Biggs. Highly commended: E. M. M. Lucas, Rowsham. Commended: J. Wheeler and Sons.

ROOTS.

Crop of not less than two acres of mangold wurtzels, four acres of swedes, and two acres of kohlrabi or turnips, the whole of the roots on the farm to be taken into consideration.—Prize, a silver cup, value £10 10s., E. M. M. Lucas, Rowtham.

Crop of not less than six acres, the whole of the swedes on the farm to be taken into consideration (for tenant-farmers only within twelve miles of Aylesbury).—Prize, a silver cup, value £10 10s., J. Procter, Irvinghoe Aston, Tring.

Best collection of roots, not less than three kinds, twelve roots of each.—Prize, a silver cup, value £5 5s., E. M. M. Lucas.

Twenty-five mangolds, taken from a piece of not less than two acres.—First prize, £2, E. M. M. Lucas; second, £1, G. Humphreys, Owlswick. Highly commended: E. M. M. Lucas.

THE IRISH NATIONAL HORSE AND SHEEP SHOW IN DUBLIN.

It is nine years since the Annual Irish Horse Shows were inaugurated, in consequence of the acknowledged deterioration of Irish bred horses; since that time these shows, which are supported by special subscriptions and receipts, have progressed rapidly in the improvement and value of sporting horses, but not so much in carriage or agricultural horses. The first show was held in

1864, when there were exhibited	370
1865, there was no show	
1866, the exhibits were	303
1867, in connection with the Royal in Stephen's-green..	258
1868, ...	366
1869, ...	452
1870, ...	493
1871, in connection with the Royal in Bell's-bridge ...	599
1872, ...	578

The show for this year was held, as usual, in the Agricultural Halls and premises of the Royal Dublin Society, on Tuesday last, and was open for the three following days. The centre of the spacious courtyard was fenced in for the adjudications, and a ring outside that was set apart for the ride and leaping-bars, and surrounding the ride the spectators' stands were erected. Notwithstanding that every available space was made the most of, the premises are too cramped for the growing wants of such an exhibition, for after the permanent covered halls were filled up the arrangements became disconnected, and the numbers did not follow in consecutive order, so that it became extremely difficult to find several classes and sections, and it is a matter of absolute necessity to provide more extensive premises, and several rings for adjudication. Having but one ring, protracted the judgments to the second and part of the third day, so that a perfect list of prizes was unattainable till Thursday evening; but with so numerous a staff of officers appointed, better arrangements should be expected; and more than that, the selection of judges was not such as to give general satisfaction. Numerous objections have been lodged.

The general character of the show was excellent, and the improvement in the young stock, particularly in the two-year-old colts and fillies, very remarkable; but in

the classes for weight-carrying hunters, good ones were rare, and were not a good representation of the Irish hunter, as many were not brought forward for some reason or other that is not quite apparent. The thoroughbred mares for the greater part were the redeeming feature of the show, and the foals at foot very promising, and amongst the numerous entries of cobs and ponies there were many capital performers.

The entry for thoroughbred stallions, calculated to perpetuate the breed and produce weight-carrying hunters, numbered eleven. David Keys, Lagaturn, county Mayo, was placed first, for Lothario, bred by Baron Rothschild. This horse, now nine years old, has been four years in the possession of Mr. Keys, whom he carries with ease though seventeen stone weight. W. St. George, Headford House, Galway, came in second for Solon, bred by his father, by West Australian out of a Birdcatcher mare. P. O'Connor, Dublin, got a commend for Multum-in-Parvo (late Frost) by Weatherbit, out of a Birdcatcher mare. Artillery, now nineteen years old, the first-prize horse at this show in 1866, was shown in this class, looking as fine and clean-legged as ever, but unnoticed.

Of thoroughbred stallions suited to get carriage-horses, there were seven. James Doyle, Ballinacarrow, county Sligo, takes the first place for Pantaloon, by Small-hopes. Charles L. Ellison, Loughglyn, Roscommon, was put second for the well-known English-bred horse The Hadji, by Faugh-a-Ballagh, out of Athol Brose, who was shown but not placed last year. Thos. Pibbs, Heathfield, county Sligo, had a commend for The Jew, by Barabbas.

Of thoroughbred sires, calculated to get hacks or harness horses, there were but three. Edward Saunders, Ballinderry-park, Tipperary, got the only prize awarded for a nameless horse by Birdlime, the judges passing over the other two.

In the class for weight-carrying hunters equal to not less than 14 stone, there were 76 entries for four prizes. The first went to Captain P. H. M'Dermot, Dondermot, Ballymo, for Nolens Volens, by Small Hopes; second,

Major Wellington Bond, North Circular-road, Dublin, for Conrad, by Arthur; the third, to Richard Walsh, Kingswood, Saggard, for Review, by Artillery; the fourth, to Earl of Shannon, Castlemartyr, Cork, for a chesnut horse, breeder and pedigree unknown.

In the class for hunters not less than five years old, and equal to from 12½ to 14 stone, there were 73 entries. Thomas Turbett, Dundrum, county Dublin, was put first for Sir Robert, by Kossuth; George F. Murphy, Dunsany, second for Dunluce, by Planet; P. Taaffe, Castleplunket, third for Damascus, by Steel Boy; and J. P. Hope, Kill, Kildare, fourth for Pilton, by Paletot. There were several capital geldings and mares in this class.

Of hunters equal to from 11 to 12½ stone, and not less than five years old, there were 53 exhibited. This was a really good class. Wm. Forbes, Callender-house, Falkirk, N.B., took the lead with a bay horse by Rapid Rhone; R. C. Cosby, Stradbally-hall, Queen's County, second for Skylark, Irish bred, by Newminster, out of Polly Hopkins; James M'Leavy, Dublin, third, for Robinson Crusoe, by Croosedan.

The citizen £100 cup for the best horse for tenant farmers whose holdings do not exceed in value £500 per annum, was awarded on the last day to P. Bredy, Dumboyne, Meath.

In the four-year-old colt class, equal to 13½ stone and upwards, there were 32 entries. Henry Eyre Linde, Eyrefield-lodge, Kildare, came in first for a grey gelding by Rapid Rhone; Hon. E. Preston, Gormanstown Castle, second, for a bay by Eidolon; Robert Ely, Elysium, Tipperary, third, for a chesnut by the Druid; Hon. E. Preston, fourth, for a chesnut by Eidolon; P. Brady, Dunboyne, fifth, for a dark bay by Matchmaker; and Wm. Maher, Galtrim, sixth, for Sir Roger, by Blarney.

In the four-year-old class for fillies, equal to 13½ stone and upwards, which was also a good class, there were fourteen entries. The Rev. Fredk. Fitzpatrick, Cloone Mohill, was first for a chesnut by Marquis, out of Pauline. Michael Flood, Clondalkin, second, for Miss George by Master George. P. J. Kearney, Clonmellon, third, for a filly by Rapid Rhone. Thos. B. Apjohn, Pallas House, Limerick, for a chesnut by Zouave, and John Hely Hutchinson, Seafield, Co. Dublin, had a commendation for a brown mare by The Marquis.

The four-year-old colts, equal from 11 to 13½ stone, thirty-seven entries, was a very superior class. The prizes were awarded in the order named: J. Barter, Drumcarra, Macroom; J. M. Plunket, Ballybrophy, Borris-in-Ossory; and Lord Clanmorris, Cregclare, Galway. Benjamin Fayle, Parsonstown, was commended.

For four-year-old fillies, equal to from 11 to 13½ stone, eighteen entries, Samuel R. Cruess, Lacka, Shinrone, first; Edward Flood, The Cottage, Kells, second; and W. Stawell Garnett, Williamstown, Kells, third.

The three-year-old colts numbered twenty-two. The prizes were awarded in the following order: S. N. Roberts, Barfield, Galway; Thos. N. Levins, Bellewstown, for Æolus; Lord Clanmorris, Cregclare, Galway, for Abdoolah. Wray Palliser, Tramore, Waterford, for The Claimant, S. N. Roberts, and John Wardell, Miltown, Dublin, were commended.

Three-year-old fillies numbered fourteen. The prizes were awarded in the following order: Edward Murphy, Balbriggan, Co. Dublin; James Trim, Newcastle, Co. Wicklow; James Butler, Ballybar House, Carlow; and J. A. Revell, Newcastle House, Co. Wicklow.

Of two-year-old colts there were fifteen entered. The prizes were awarded in the following order: Thos. Scott, Barnfield, Mayo, for Connaught Star by Lothario, the first prize thoroughbred stallion; Colonel Hon. J. C. Westenra, for Latitat, second, and J. T. Dillon, R. M. Killeshadra, Cavan, third.

The two-year-old fillies numbered 8, an excellent class Richard Coffey, Killucan, first; D. P. Joint, Dunboyne, second; Richard Coffey, third; and Simon Sheil, fourth prizes. Colonel Tottenham, Woodstock, Wicklow, and Allan Pollok, Lismany, Ballinasloe, were respectively commended.

There were 32 ladies' and park horses, amongst which there were several very good. Possibly the judges got tired; but at all events they did not go to much trouble in selecting the prize animals. They were as follows: Miss M. Mildon, Merrion Square, first for Con; C. W. Thompson, Holywoodrath, Dublin, second, for Puss; and Francis Fawcett, Belleck, Fermanagh, third, for Fairy Fern.

The classes for weight-carrying cobs and roadsters were excellent; that not exceeding 15.1 hands, and able to carry 15 stone and upwards, numbered 14, in which R. Flynn, Tuls, came in first, for Mr. Butt; P. P. Taaffe, second, for Fairy King; and L. Byrne, King's Dragoon Guards, third, for Prince.

The class from 14 to 15 hands, calculated to carry 13 to 15 stone, numbered 10. P. Taaffe, Castleplunket, got first for Rotten Row; W. L. Byrne, R. M. Moynalty, second; and Wm. O'Meara, Parsonstown, third prizes.

The class from 14 to 15 hands to carry under 13 stone, numbered 18. The Earl of Shannon, Castlemartyr, Cork, takes first; Leopold Cust, Cordangan Manor, Tipperary, second; and John Gough, Kilberry, Co. Meath, third prizes.

In the class for harness horses or mares bred in Ireland there were fourteen entries—Arthur Bushe, Elgin-road, Dublin, first, and Major W. R. Ormsby Gore, M.P., Derryearn, Dromod, second. Colonel Kane Bunbury, Moyle, Carlow, was highly commended.

Of ponies from 12 to 14 hands there were thirty. Wm. Scott, Eden Quay, Dublin, takes first; R. Conway Dobbs Ellis, Omagh, Tyrone, second; and Dermot Cole, Kinnegad, third. Colonel Hon. Mr. Forbes, Curragh Camp; Major Brereton, New Abbey, Kilcullen; and Wm. Auchinleck Dane, Enniskillen were highly commended.

In the class for ponies under 12 hands there were twelve entries. The prizes are, first, Major Brereton; second, J. A. Farrell, D. L. Moynalty; third, Rd. Warburton, Portarlington. J. A. Farrell got an H. C., and E. V. Ferguson, Killiney, got a commended.

The thoroughbred mare class was a remarkably good one. Sir Percy Nugent, Donore, Mullingar, took the first prize for Rivulet, by the fine old horse Artillery, out of Crystal by Crosier. Simon Shiel, Ballyshannon, second for Barbara, bred by the late Marquis of Waterford, by Barbarian, out of Ariadne. The third went to M. Betagh, Lohunda Park, co. Dublin, for Niagara by Colonist (son of Melbourne), and her dam (sister to St. Laurence) by Dr. O'Toole, and the fourth to C. W. Wise, Rochestown, Cahir, Tipperary, for Flounce by Brian Boroihme; now twenty years old, and with a colt at foot by Lord Ronald. Mr. Betagh, the winner of the third prize, got a commend for Coterie, bred by his Excellency Earl Spencer, by Cotherstone, out of Lady Betty.

In the class for mares suited to produce weight-carrying hunters, there were twenty-five entries. The prizes were as follows: First, to J. S. Winter, Agher, Enfield, for Finette; second, to Geo. N. Purdon, Lisnabin; third, to B. J. Fitzpatrick, Newlands, Naas, for Hester; and the fourth, to R. G. Cosby, Stradbally Hall, for Mrs. Briggs. Wm. Kennedy, Brannoxtown, Kildare, and Wm. Girdwood, Old Park, Belfast, received H. C.'s—the first for Cruiskeen, the latter for Dinah.

In the agricultural classes there were but 31 of all sizes and ages; many of them very fine and powerful animals. Of aged stallions there were 8. The first prize and the Royal Agricultural Society's £50 cup was

awarded to John M'Court, West Cam House, Duleck, for Billy-the-Bean, by Hercules, by a Repeater dam; the second, to Richd. Good, Aberlow, County Cork, for Boxer, a Suffolk Punch, bred by T. Capon's Executors, Denning Hall, Suffolk; the third, to S. R. Kerr, Rathmoyle, Eelinderry, for Lanark, a Clydesdale, bred by Sir Wm. Stirling.

Five stallions under four years old, composed the next class. The first prize went to Thomas O'Malley, for Orphan, which stood in the same position last year; the second to Lord Crofton, Mote Park, Roscommon, for Lord Clyde, an imported Clydesdale, and the third to Edwd. M'Cormick, for Brian Boroihme.

In the class for fillies under five years old there were 6 entries. S. R. Kerr takes the first prize for Fanny, under two years old, by Lanark (the third-prize stallion in the aged class), out of Bell, the dam of Lanark, and T. O'Malley takes the second for Lally, a Clydesdale filly.

The brood mares numbered 7. S. Rait Kerr took the first place for Bell, the dam of both his prize filly and her sire Lanark, and the second place went to L. McCourt for a brown mare by Sir William Wallace, and an H. C. was awarded to Christopher Carslan, St. Doloughs, for Miss Clyde.

Of draught horses there were but two good Clydesdales, belonging to the Messrs. Arthur Guinness, Son, and Co., which deservedly got both prizes.

In the class for draught mares there were also but two, the Messrs. Guinness, Son, and Co., taking the first place for Catherine, a seven-year-old Clydesdale; the second went to J. A. Farrell, D. L. Moyalty, for Hampton, a Herefordshire-bred mare from Hampton Court.

The show of rams was very creditable, numbering in the aggregate 78. In the shearing Leicester class there were 10. Thos. Marris, The Chase, Ulce, an old exhibitor at Irish shows, took first place with the ram that occupied this position at the Belfast Royal Meeting; Wm. Owen, Blesinton, Co. Wicklow, who is an old and successful breeder of pure Leicesters, being put second and third, and Wm. Meade, Bally Martle, Co. Cork, getting a commend for a very good and highly-bred ram. In the aged section there were eight; Mr. Owen taking first and third places, and Mr. Marris the second. In the Border Leicester class there were 12 shearlings, in which Lord de Vesci, Abbeybix, who breeds exclusively from prime animals selected from Lord Polworth's flock, took the first and second prizes and a high commend for all he exhibited. Mr. Franks Westfield, Mountreth, taking the third place for a very serviceable ram. There were but four aged rams of this breed exhibited; the first place was given to Wm. Young, Brockley Park, Stradbally, the second and a commend to R. Owen Belmont, Rathdowney, for two rams bred by the late Loftus Bland, of Blandsfort, a first-class breeder of this sort of sheep. The Lincolns were chiefly represented by Caleb Going, who took all the prizes in the shearing and the second in the aged sections, the first in the latter going to John Bell Irving, Whitehill, Lockerbie, N.B., the breeding of which is very doubtful.

The Roscommon class commanded universal attention from their great size, condition, symmetry, and superior quality of wool. Richard Coffey, Newcastle, Killucan, Westmeath, who has been breeding this class of sheep from selected animals for some years, takes the first prize in shearlings and the late Mr. Jury's £20 cup; Captain Blood Smith, Fedamore, Limerick, stands second; John Dennis, Ballygall House, Fingles, third; and Thomas Roberts, Strokestown, fourth. In aged rams, there were nine fine animals. Mr. Coffey is again the winner of the first, and commended for a magnificent ram weighing

thirty-two stone; and Captain Blood Smith the second prize.

The shortwool class was confined to the Shropshire Downs, in which C. W. Hamilton, Hamwood, was, as usual, the largest exhibitor, and took all the money prizes in both the shearing and aged sections, Mr. Marris taking a commendation in the shearing, and Mr. Peake another in the aged sections.

The Judges were:

CLASSES 1, 2, 3, 22, and 23.—Major Barlow, Hasketon, Woodbridge; M. J. Moorehead, M.D., Tullamore; Mervyn Archdall, M.P.

CLASSES 4, 5, and 6.—Henry Thomson, Newry; Henry Briscoe, Tinvane, Carrick-on-Suir; Burton R. P. Perse, Moyode Castle, Athenry.

CLASSES 7, 8, 9, and 10 (inclusive).—Hon. W. Arbuthnot, Hatton, Montrose, N.B.; David Beatty, Borodale, Ennis-corthy; Captain Gubbins, Castle Troy, Limerick.

CLASSES 11, 12, 13, 14, and 15 (inclusive).—Captain Bernard, Forenaghts, Naas; Colonel Hillier, Constabulary depot; William Maxwell, Cruise Rath, Cloghranhuaddart.

CLASSES 16, 17, 18, 19, 20, and 21.—Major Borrowes, Giltown, Newbridge; Charles Hodson, The Bays, Athlone; H. Mervyn Richardson, Rossfad, Ballycassidy.

CLASSES 24, 25, 26, 27, 28, and 29.—Alfred Darker, Barn Eill, Clonsilla; Hon. Hugh Massy, Elm Park, Clarina; G. A. Stephens, Blackhall-place.

SPECIAL PRIZES.—Major Borrowes, Giltown, Newbridge; Stovin Warburton, Elphin.

JUMPING PRIZES.—Sir C. E. Kennedy, Bart., Johnstown, Rathcoole; Burton R. P. Perse, Moyode Castle, Athenry; Leonard Morrogh, 5, Great Denmark Street; S. A. Reynell, Archerstown, Killucan; Baron de Robeck, Gowran Grange, Naas; Captain G. Warburton Drought, Cargins, Tusk; Sir John Power, Bart., Kilfane, Thomastown.

SHEEP JUDGES.—LEICESTERS: T. Harris, Stoneyline, Brownesgrove, Birmingham; R. Reynell, jun., Killynion, Killucan; L. Thunder, Kingston Lodge, Navan. BORDER LEICESTERS AND LINCOLNS: G. Atkinson, Hall Farm, Seaham; J. Simson, Cloona Castle, Hollymount; G. N. Purdon, Lisnabin, Killucan. ROSCOMMON: C. L. Ellison, Loughglyn, Castlereagh; S. Garnett, Summerseat, Clonee; R. Glancy, Willsgrange, Ballintubber. SHROPSHIRE: J. Woods, Clepstone Park, Mansfield; N. M. Archdall, Crochnacreeve, Ballynamallard; R. Chaloner, J.P.

THE ECCENTRICITIES OF SHORTHORN JUDGES.

TO THE EDITOR OF THE MARK LANE EXPRESS.

SIR,—The subjoined table showing how "doctors differ" as to the relative merits of the Shorthorn cows of this season appears to me to be rather curious, especially where the same judges, as in the case of Mr. Alymer at Dorchester and Cardiff, and Mr. Drury at Cardiff and Newcastle, entirely alter their own decisions.

Truly yours, R. STRATTON.

Duffryn, near Newport, Mon. Aug. 27.

DORCHESTER:	CARDIFF:
Flower Girl, 1st,	Primrose, 1st,
Princess Alexandra, 2nd,	Nelly, 2nd,
Nelly, 0.	Princess Alexandra, 3rd,
	Flower Girl, 0,
	Coraline, 0.

NEWCASTLE: Coraline, 1st; Primrose, 0.

GLOUCESTERSHIRE:	YORKSHIRE:
Flower Girl, 1st,	Coraline, 1st,
Princess Alexandra, 2nd,	Concert, 2nd,
Coraline, 0.	Flower Girl, 3rd.

LINCOLNSHIRE: Princess Alexandra beat Concert.

SALE OF MR. T. BRACEWELL'S HERD OF SHORTHORNS,

AT RIBCHESTER, NEAR PRESTON, ON FRIDAY, AUGUST 30.

By MR. JOHN THORNTON.

About seven years ago Mr. Bracewell gave up the close confinement of town life, and occupied the small farm attached to the Parsonage in that ancient sleepy little village on the banks of the Ribble, called Ribchester, midway between Preston on the one hand, and Whalley Abbey and Clitheroe on the other. A few of the fields are only fair pasture, the larger portion of the farm lying on the hill-top, and poor rushy grass it is, with not an acre of arable on the entire holding. Hay, and a little artificial in winter, was the only keep for the dairy cows, and the few Shorthorns he bought from Mr. R. S. Bruere, at Braithwaite, "t'other side o' the fell." Maid of Honour, from the Hon. G. E. Liscelle's herd, a descendant of Mr. Torr's Moonbeam tribe; White Rose, of Towneley blood; and Theo, granddaughter of Mr. Wetherell's Cozy (some time in the Holker herd) from Dr. Dickinson's and Mr. Kennedy's sales at Ulverston, were the only public investments. Water Cress came a little 30 gs. calf from Knowlmere, and Mr. Bruere supplied him with a couple of bulls from the Garnet and Vesper tribes, abounding with Warlabby blood. From Mr. Carr the final purchase was made of another calf, but of a different sex and five times more costly than the Knowlmere purchase. This was Sir Windsor Broughton (27507), a bull Mr. Bracewell has since continued to use, two-thirds of the herd being by him. The stock, possessing great dairy as well as feeding properties, soon came to the knowledge of the Fylde farmers, who took the bull-calves at paying prices. One purchaser bought a cow, Rose Adelina, and she passing into the hands of Mr. Saul, became a noted prize winner in the district, so much so that Mr. Saul came for another one, and got Rose of Ashton, who promises to be equally successful. Finding, however, the place was unsuited for rearing good Shorthorns, Mr. Bracewell called in Mr. Thornton's services. The sale was advertised in the press, and in the showyard by a bull-calf, Windsor's Knight, an extraordinary specimen of development and perfection. He won first prizes at five local shows in good competition, but for fear of infection with the prevailing epidemic the calf was withheld from the Royal North Lancashire Meeting last week at the county town. Mr. Bracewell might well regret the loss of probable honour and prestige; for on his return two or three Leicester sheep were lame, and one of the best cows. How, why, or wherefore, it was impossible to tell. No stock had been changed on the farm for months, neither were the show men allowed to go there, and scarcely a stranger came by, so isolated and airy is the spot. By the end of the week the well-known smack was heard and seen, and on Saturday night the stock declared infected. Too late to postpone the sale, the company was allowed to come forward and see the cattle under the worst circumstances. Special conditions were drawn up, and the animals were to be kept at Mr. Bracewell's sole risk, until the veterinary certificate of health could be forwarded. The sale proceeded with the most successful results, doubling in many cases the expected averages of the most sanguine and interested. Lot 1, Water Cress, the Knowlmere calf, after single biddings, finally fell to Mr. Haslam, Gilnor House, for 90 gs. Lot 10, her daughter by Mr. Bruere's Sir David, a broad round-ribbed massive cow, went to the same buyer at 215 gs., but the heifer-calf from Lot 10 finally fell to Mr. Rose, of Norfolk, at 110 gs. The Rose tribe from Mr.

Bruere's were also in great request. Many of them were extraordinary milkers, and both there and lame. Rose of Clitheroe, by Mr. Booth's Suttler, one of the best cows of this tribe, was bought by Mr. J. B. Booth for Lady Pigot, at 63 gs.; he also secured her yearling heifer at 46 gs., but her two-year-old, a splendid heifer, the first produce of Sir Windsor Broughton, went to Mr. Haslam at 150 gs. Mr. J. Thom, of Chorley, got several of this most useful tribe, and Mr. J. G. Grove also takes one into Ireland. Lot 5, Lady Barmpton Rose, of Towneley descent, a stylish cow of fine quality but thin, was purchased by Mr. Cameron for Mr. Robinson, of Burton-on-Trent, at 115 gs., and Mr. Rose secured her heifer-calf. Mr. Cameron also got Consolation, the Cozy cow, a very massive beast, at 85 gs., and Dr. Crauke bought her promising heifer-calf at 45 gs. Maid Molly, the Aylesby bred cow, was the first affected, and although very neat and elegant, and a splendid breeder, was both lame and out of condition. The biddings were plentiful all around the ring until Mr. Kennedy and Mr. Chrisp settled down in tens and fives, until the latter got her at 225 gs. for Mr. A. H. Browne, of Aclington, owner of the first-prize cow at Cardiff. Mr. Kennedy, however, bought a beautiful heifer in Moss Rose at 130 gs., and Mr. Thom got Rose-blush, her own sister, and the best heifer at the Clitheroe show for 90 gs.

Sir Windsor Broughton was the attractive lot. Breeders were present for him from Ireland, Aberdeen, Isle of Man, Yorkshire, Lincolnshire, Cambridge, and Northumberland. The bull was running out in a paddock, low in condition, and slightly lame; neither was he handsome withal, though he possessed several good points, and left his own excellencies and those of the pure fountain of his blood—the Warlabby Bliss tribe—in his progeny. Great was the competition. Ireland was in beyond 200, so too was Cambridgeshire, and Yorkshire high unto the death; but the bull, although bought by Mr. W. Burnyeat, of Whitehaven, goes to Mr. Lacey's herd on the Isle of Man. Maid Molly's handsome little bull-calf at 80 gs. (Mr. Kennedy), and one or two other lots closed the business at the Parsonage. The company then adjourned to the "White Bull," both as the sign and in the flesh, at Ribchester village. Lot 27, Windsor's Knight, the prize calf, having been kept at Clitheroe, had not been near the farm, so he was kept back and sold in the village to the no small astonishment of the inhabitants. The bull was brought out, his performances stated, and 50 gs. the first bid. He gradually rose to 100, and Mr. Robertson, of Whitehaven, kept well in till 200 was reached, when Mr. T. H. Hutchinson came out, and Mr. J. Thom and Mr. C. W. Wilson, until 285 came from Mr. Thom, and Mr. Wilson's "300 gs." sent him to Kendal amid the cheers of the company. Two or three extra lots were sold, including a bull of Mr. Jemson's from Lot 1, at 81 gs. (Mr. Robertson), and Mr. Midgley's prize calf, I.X.L., was bought by Mr. W. Ray for 58 gs. This brought the sale to a conclusion with certainly, under the circumstances, one of the most remarkable averages of the year. Subjoined are the prices:

COWS AND HEIFERS.

Water Cress, roan, calved July 15, 1865; by Abbot of Knowlmere (19183).—Mr. J. P. Haslam, 90 gs.
Rosemarv, red and white, calved December 3, 1866; by Sir George Windsor (25144).—Mr. J. Thom, 36 gs.
Rose of Clitheroe, roan, calved February 26, 1867; by The Suttler (23061).—Lady Pigot, 63 gs.
Diamond Rose, red and white, calved December 14, 1867; by Sir David (25135).—Mr. J. Thom, 41 gs.
Lady Barmpton Rose, roan, calved February 26, 1868; by Sir David (25135).—Mr. T. Robinson, 115 gs.
Maid Molly, roan, calved April 20, 1868; by Royal Booth (22772).—Mr. A. H. Browne, 225 gs.

Rose Bloom, red, calved August 25, 1868; by Red Granite (24914).—Mr. J. G. Grove, 53 gs.
 Mary's Rose, red and little white, calved September 22, 1868; by Sir David (25135).—Mr. J. Thom, 45 gs.
 Water Wave, red and white, calved December 27, 1868; by Sir David (25135).—Mr. J. P. Haslam, 215 gs.
 Consolation, roan, calved April 25, 1869; by Sir David (25135).—Mr. T. Robinson, 85 gs.
 Christmas Rose, roan, calved December 25, 1869; by Sir Windsor Broughton (27507).—Mr. J. P. Haslam, 150 gs.
 Belle Flora, red and white, calved January 5, 1870; by Sir Windsor Broughton (27507).—Mr. J. Thom, 81 gs.
 Moss Rose, red and little white, calved January 29, 1870; by Sir Windsor Broughton (27507).—Mr. Kennedy, 130 gs.
 Rose of the Vale, roan, calved December 31, 1870; by Sir Windsor Broughton (27507).—Lady Pigot, 46 gs.
 Rose Blush, roan, calved March 7, 1871; by Sir Windsor Broughton (27507).—Mr. J. Thom, 90 gs.
 Village Rose, red and white, calved March 25, 1871; by Sir Windsor Broughton (27507).—Mr. J. Robertson, 40 gs.
 Scarlet Flower 3rd, roan, calved May 21, 1871; by Sir Windsor Broughton (27507).—Mr. J. Thom, 30 gs.
 Sweetbrier, roan, calved June 4, 1871; by Sir Windsor Broughton (27507).—Mr. J. G. Grove, 20 gs.
 Lady Lily Bampton, white, calved November 5, 1871; by Sir Windsor Broughton (27507).—Mr. T. Rose, 40 gs.
 Clara, roan, calved April 24, 1872; by Sir Windsor Broughton (27507).—Dr. Cranke, 45 gs.
 Water Nymph, red white, calved May 24, 1872; by Sir Windsor Broughton (27507).—Mr. T. Rose, 110 gs.
 Rose Blossom, roan, calved May 26, 1872; by Sir Windsor Broughton (27507).—Mr. M. Kennedy, 40 gs.
 Rose of Summer, red and white, calved June 6, 1872; by Sir Windsor Broughton (27507).—Mr. J. Thom, 30 gs.

BULLS.

Sir Windsor Broughton (27507), roan, calved February 20, 1868; by Prince of the Realm (22627).—Mr. Burnyeat, 305 gs.
 Gardener, roan, calved May 31, 1871; by Sir Windsor Broughton (27507).—Mr. Knowles, 20 gs.
 Windsor's Knight, white, calved August 25, 1871; by Sir Windsor Broughton (27507).—Mr. C. W. Wilson, 300 gs.
 Windsor's Prince, red and white, calved April 22, 1872; by Sir Windsor Broughton (27507).—Mr. T. Warne, 17 gs.
 Knight of the Parsonage, roan, calved May 23, 1872; by Sir Windsor Broughton (27507).—Mr. J. Todd, 41 gs.
 Knight of the Roses, red and little white, calved July 1, 1872; by Sir Windsor Broughton (27507).—Mr. J. Arabin, 21 gs.
 Knight of Windsor, roan, calved June 28, 1872; by Sir Windsor Broughton (27507).—Mr. Kennedy, 80 gs.
 The Knight, roan, calved July 20, 1872; by Sir Windsor Broughton (27507).—Mr. McNeale, 8 gs.

SUMMARY.

	£	s.	d.		£	s.	d.
23 cows averaged	83	1	9	.....	1,911	0	0
8 bulls	103	19	0	.....	831	12	0
31 head	88	9	5	.....	£2,742	12	0

SALE OF LORD DUNMORE'S SHORT-HORNS,

AT DUNMORE, STIRLING, ON THURSDAY, SEPT. 5.

By MR. JOHN THORNTON.

Few men could have dared to fix for the dispersion of his superfluous stock a date within the very first week of the partridge season. However, the time has come and gone, and shown that after all his Lordship of Dunmore was not ill-advised. For ourselves we growled fearfully, we must confess, at having to toil Northwards ere we even had tasted of the long-anticipated sport. Still it had to be done, and there was no use repining. It was very sad to see along the line across the Lothians so much corn yet uncut and unhoused, but infinitely more sad-

dening yet between Edinburgh and Stirling to see wide fields of grain quite beaten flat and growing through. How ever the rent for that land shall be found off the produce this year it is difficult to understand. But from the Larbert Station, where a branch line turns off for Dunmore, such was the state of the tillage that we devoutly registered a vow that, come whence the persuasion might, we at least should never engage a bailiff from "the land o' cakes." Such forests of thistles, so thick a sprinkling of deadly-ripe docks, such green stuff being mown and reaped with the oats that the stooks looked rather like bundles of vetches than ripened corn! After being driven nearly mad by the self-possessed half-cunning, half-stupid, demeanour of a pestilent lad, whose trap was the only one to be got at the station, and who might certainly have sat to Walter Scott for the character of the turnkey, Donald, in his novel of Rob-Roy, in about an hour and a-half we have managed to cover about five miles, when the villainous cultivation began to show signs of improvement, and then suddenly we came upon park palings enclosing some most luxuriant heather in full flower, and interspersed with young Scotch fir. Here commenced Lord Dunmore's private domain, as we were informed, and amidst that bright bloom lurked many a noble black cock. We had not gone far up the drive when we met a party of sportsmen and keepers striding to the scene of slaughter. It was a noble avenue we had entered, with fern and heather and lordly Scotch fir upon either side. How it reminded one of the scene (again in Rob-Roy) where the Macgregor disposed his black cattle and followers for the night, and where the rencontre occurred in which Rashleigh Osbaldistone received his death wound. Nor did that Highland hero of the long arms and yellow hair ever mulet the Southron of "black-mail," heavier than did his Lordship of Dunmore. The only difference was that the Macgregor's victim paid through the nose, whereas the Earl's victim's bled pleasantly, and of their own sweet will.

Upon our arrival—it was the day before the sale—we got, having no guide, amongst a herd of very sweet cattle, so low and lengthy, and exhibiting in a strong degree the high bearing of the noble Duchess strain. Being unticketed these obviously were not the animals for sale, and so we harked back in the direction of the house where another lot of cattle was to be seen reposing on the long grass, and a small company engaged in their inspection. The first lot then we had invaded were his Lordship's reserve, and right excellent judgment beyond a doubt he had exerted in the selection, an idea which occurred to others than ourselves, seeing that that very night Mr. Brassey offered his noble host no less than fifteen thousand pounds for the choice of twenty, an offer which was "declined with thanks." Having inspected the lot for sale, and of which it is not invidious to remark that they were to look at, as a rule, quite ordinary cattle, having no common type, and belonging to a variety of families, we proceeded on a walk across the park quite over our shoes in water, and which brought us to a very cleverly fitted up wooden building, where great roaring bulls were confined within merely deal boards and bars. "Ah! my friend," one could not help reflecting as we got upon a step to look over and contemplate the beautiful proportions of the 2nd Duke of Collingham, "it is just as well you don't know your strength." It made one shudder to think what the consequence might be were one only of those infuriated neighbours to annihilate his enclosure. Since Mr. Rich's sale this grand bull has much improved. His girth has expanded, and he has thickened all over. The aristocratic style of his bearing he could not well improve. How grandly they display themselves, these

Duchess bulls, with their refined small heads, the proud arch of their crested necks, their broad fleshy backs, and stylish long quarters! On so low a leg too are they, and so deep in their fall of bosom. No wonder the artist auctioneer so long since lost his heart to them!

Having got thus to the farm-buildings, we should have been glad to have viewed his lordship's travelling steamer; but we could not ascertain where it was to be found. Our time to catch the return train to Edinburgh, moreover, was limited. Wherever the implement might have been, as we did not see it, there was just one conclusion that we came to, and that was that it must assuredly require galoches or snow-shoes to travel with any comfort across the everlasting peat-bog of which the estate seems to be made up. Blessings, however, long and thorough, upon the heads of such young noblemen as the Earl of Dunmore, who so grandly devote their time, energy, and wealth to the development of agriculture! To this, at the sale luncheon, the chairman, Sir William Stirling Maxwell, made touching allusion. The family had always been distinguished for good deeds, and this spirit showed yet no indication of paling; and it was, we doubt not, the general appreciation the company entertained of his generous, earnest labours to develop in Scotland, as he himself told us in his speech he tried to do, the beneficial practice for which Lord Leicester's name shall ever be held in honour, that was a main cause of his obtaining so extraordinary an average for his bovine drafts, for incomparably superior we must repeat to those sold are those he retains as the nucleus of a new herd. So superior, indeed, that there was very generally expressed a doubt of the wisdom which had allowed the two lots to range in such close proximity, provoking thereby superfluous and dangerous comparison.

The morning of the sale commenced, as we conclude most mornings do in Scotland, with heavy wet. It gradually cleared however, and towards luncheon time, when the cattle were driven to be tied up, the sun came actually out. An excellent repast, and the customary toasts having been got through, the large company hastened to take their seats in a small miniature amphitheatre, the auctioneer having a superb enclosure to himself. Well, what will be the average? No one dared to predict. One hundred and thirty, think you? Aye, more than that; but not (*sotto voce*) so great as they anticipate. I fear his lordship will be disappointed. Such was the pretty general tenour of the current remarks, as one after another down the line where they were tied each animal was inspected or handled. How greatly were the wisest mistaken we must proceed now to record.

We are seated round the ring. Enter cow No. 1, a very stylish, cylindrical, rich-coated, long-quartered animal, having her shoulder-points beautifully packed, a striking, thoughtful head, and a most amiable temper, if we are to judge from the gentle demeanour with which, although evidently incommoded, if not hurt, she suffered the hard thumping treatment whereby her large-grown son sought his aliment at her udder. A somewhat slow breeder, she had been bought at Mr. Foster's sale for 190 gs. There were plenty of people in for her; but Mr. Larking's first bid of 100 stumped a number. She went to Mr. Sartoris for 115 gs. Lot 2, a common-looking cow, but long-quartered, and having an excellent calf beside her, was bought by Lord Bective for 40 gs. Lot 3, a narrow-backed and rather leggy animal, but with an excellent rib and a great character for milk, Lord Chesham, 100 gs. His lordship also bought lot 4, the dam of Lord Eglintoun, a fleshy, thick cow, standing up well, and exhibiting a deep square dewlap, for only 50 gs. (she cost 84 at Mr. Saunders' sale). Her cheapness was owing to her having been an uncertain breeder of late. Lot 5, a sweet, long cow, walked like a thoroughbred, and

a great milker, shoulder beautifully packed. 150 gs. first bid, and 5, and 5, until she stood at 230, when, as if aware of the unworthy treatment to which she was subjected, such a deprecatory look did she assume, turned as she was and close to her breeder, Mr. Bowly, that we suppose his tender heart could not stand it. Something happened anyhow, for away she went again, and was knocked down to Mr. Larking, of Sussex, for 260 gs., the exact price for which she had been purchased at the Siddington sale. Next came on the scene such a sweet-fronted cow! lovely and excellent in the highest degree from horn to hip, when she began to fail, having a thin flank and a cushioned quarter. She cost 160 gs. at Mr. Charles Howard's sale, and went now to Sir W. Stirling Maxwell for 175 gs. Lot 7, a good specimen of Bates upon Knightley, which cost 140 gs. at Mr. Saunders', went for 62 only to Mr. Thompson. Lot 8 was withdrawn. Lot 9, a grand, stylish, but small cow, as, standing in a sort of "attention" attitude, she looked all conscious of her value. 100—110—150—160—400—415—450—500—530 in as many seconds, and she became the property of Mr. Brassey. Lot 10, thick-fleshed, bought at Mr. Holland's for 44 gs., went to Mr. Morris for 100 gs. Lot 11, a stylish light roan with a flat horn, Lord Fitzhardinge for 200 gs. Lot 12, quite the Knightly stamp, but a doubtful breeder, which cost 150, went now to Mr. Thompson for 53 gs. Lot 13, of mild pedigree, but the only cow offered during the day with any pretensions to the showyard, went to Mr. H. Fawcett for 100 gs. Lot 14, square-built cow, small, 360 gs. to Mr. Brassey. Lot 15, an ordinary animal, cost 40 gs. at Mr. Holland's, fetched 61 gs. from Mr. Coleman. Lot 16, cost 50 at Col. Kingcote's, sold to Mr. Gow at 105 gs. Lot 17, Siddington VII., went, as she deserved, to Lord Bective for 500 gs. Lot 18, of a common drabby colour, Mr. Singleton, 50 gs. Lot 19, a very different animal, having good head and horn, and an excellent calf, to the same gentleman for 71 gs., calf 36 gs. Lot 20, fair ordinary cow, Lord Cawdor at 70 gs.; calf 30 gs., Rev. P. Graham. Lot 21, Mr. Coleman, 61 gs. Lot 22, a light roan, a long cow, very topsey, with springing rib, a short flat horn, splendid through the heart, but in low condition, having been worked hard, Lord Bective, 805 gs. Lot 23, 90 gs., Mr. Whitman, Boston, America. Lot 24, thorough-bred looking, Mr. Gow, 150 gs. Lot 25 withdrawn, owing to an accident. Lot 26, a thick rich-coated cow, bought at Holker for 90 gs., brought the same sum from Mr. Singleton. Lot 27, a good thorough-bred looking cow, 265 gs., Lord Fitzhardinge, cost 120 at Mr. Saunders'. Lot 28, 65 gs., Mr. Philips. The threatening clouds had begun to burst when the next, Lot 29, came upon the scene, a good shaped cow having plenty of hair, and above all a fashionable pedigree; first offer 500 (the sum for which she had been originally bought), 600—"700, and the glass runs," and the rain began to run too, down the umbrella points of one's neighbour's umbrella on to one's unhappy legs. "Do take your umbrella down, there's a good fellow, I can't see the cow;" but a glance he got, and out blurted £730, but it was of little good, and then the rain came down in torrents, and we were thankful to get rid of her to Lord Bective for 805 gs. Lot 30—after the storm a calm—Mr. Coleman, 58 gs. Defiant of the soak, and with proud neck right conscious of her importance, in advanced Lot 31, to be knocked down to Lord Feversham for 275 gs. The next, Lot 32 (greatly wanted, as the auctioneer observed), "Sunshine," Mr. Drummond, 81 gs. Lot 33, mossy-coated, a nice cow, Major Stapylton, 55 gs. And now came grand objects of competition for their pedigree's sake, for although of a fair useful type there was no remarkable feature about them beyond their being well-ribbed and thick-fleshed. Lot 34, Lord Bective, 450 gs. Lot 35,

Lord Beattie, 535 gs. Lot 36, Mr. Davies, 1,010 gs. Lot 37 withdrawn. Lot 38, mossy coated, thick-fleshed, to the Duke of Devonshire, for 375 gs. Lot 39, Lord Chesham, 71 gs. Lot 40 ("the purest Oxford in the kingdom"), Mr. Davies, 1,200 gs. Lot 41, Rev. Mr. Graham, 270 gs. Lot 42, Lord Chesham, 60 gs. Lot 43, Rev. R. B. Kennard, 50 gs. Then began the sale of the calves, which (taken together) were undoubtedly an indifferent lot as regarded looks. His Lordship explained that his herd had suffered much from foot-and-mouth, which had swept off a number and possibly damaged the rest. Lot 44, Mr. Colman, 62 gs. For Lot 45, notwithstanding the Marquis of Carrabas cross, there was strong competition. It was a wealthy looking, long-quartered calf, and was bought by Mr. Angerstein for 860 gs., last bidder Lord Beattie. Lot 46, Lord Chesham, 50 gs. Lot 47, a very nice, broad-backed, deep-chested calf, full of substance and quality, Mr. Angerstein, 100 gs. Lot 48, Rev. Mr. Kennard, 40 gs. Lot 49, Mr. F. Gow, 110 gs. Lot 50, Mr. Angerstein, 170 gs. Lot 51, Mr. Colman, 51 gs.

And now the bulls came upon the scene, with First Baron Oxford V., a good, deep, upstanding animal, of much promise, taken to Holker at 400 gs, by Mr. Drewry. Lot 53, a peculiarly marked animal, throwing back in his colour to 4th Duke of Oxford, Mr. J. Colman, 80 gs. Lot 54, a stylish good calf, E. J. Colman, 255 gs. Lot 55, Lord Roslin, 61 gs. Lot 56, Col. Bruce, 63 gs. Lot 57 (out of lot 1), and having a delicious touch, fetched 92 gs., Mr. Thompson, of Kendal.

So ended this most remarkable sale, greatly to the satisfaction of all present, who were generally pervaded by the hope that at least his Lordship might not lose by his spirited efforts to advance the Shorthorn cause. Staggered undoubtedly were many as the grand total mounted quick under the breech-loading regularity with which Lord Beattie fired his telling, "and fives." "Five hundred," in the shrill tones of Lord Fitzhardinge, once made the whole ring's heart jump just as his hunting cheer by the cover side does. Overtopping Mr. Thornton, and grave looking, as when he is nerving himself for a five-foot wall, Mr. Bowly evidently wondered listening, and looked as though his countenance could never again relax to playful wink or genial smile. The duels occasionally were fearful to behold, and in a great measure the audience stood up to watch as the fight grew hottest.

"Oh! for one hour's use!" There were doubtless many besides ourselves who inwardly murmured of that gentleman's bank-balance. To hear hundreds, thousands, pitched as coolly as shillings into the ring in hurried competition 'for a coo' was, to say the least, startling! 860 guineas! Only fancy, how many ordinary household bills that would cover! Is it madness? is it lunacy? will it pay again? were questions we asked ourself in quick succession; and the conclusion that we came to was simply this—that for the favoured few who already own deeply of the "blue blood" of the "bovine aristocracy," it is a safe and most profitable game. Even more, gentlemen, too, who, having abundant means and a taste for country pursuits, desire to own a Shorthorn herd, cannot do better than buy, at whatever cost, the best specimens of purest lineage. They are sure to have a good return. Like costly diamonds of note they will gradually come into the possession of a happy few, and, like diamonds, they will improve rather than depreciate in value.

The *spring of pure blood* must be maintained, and fortunate are those who can afford the cost, considering how every mountain side now exhibits in the improved character of their browsing herds the increasing prosperity, not only of the small yeoman holder, but of the country at large. If he is to be esteemed as a public benefactor who has made to grow two blades of grass

where one only formerly grew, *a fortiori* are they to be admired and applauded who so nobly stake their thousands, not only to swell the food supply for our increasing population, but to keep in the eye of the foreigner England, as she deserves, and by her climate and insular position was undoubtedly intended to be, the finest breeding station in the world.

Amongst those who attended the sale were the Earl of Leicester, the Earl of Feversham, the Earl of Rosslyn, the Earl of Cawdor, the Earl of Kellie, Lord Skelmersdale, Lord Fitzhardinge, Lord Beattie, Sir William Stirling-Maxwell, Bart.; Sir Robert Menzies, Bart.; the Hon. Waldegrave Leslie, the Hon. Charles Erskine, the Hon. Henry Bourke, Colonel Nigel Kingscote, C.B.; Mr. Williamson of Lawers, Captain Balfour of Balbirnie, Captain Bethune of Blebo, Professor Wilson, Edinburgh; Provost Christie, Stirling; Rev. Mr. Stanforth, Rev. Mr. Cave Browne, Rev. Mr. Kennard, Dorset; the Rev. Mr. Graham, Lancashire; Mr. Edmonston, Edinburgh; Mr. W. Thomson, Edinburgh; ex-Provost Murrie, Stirling; Mr. John Tennant, St. Rollox; Mr. Thomson, Kendal; Mr. Booth; Mr. Davies, Thornbury, Gloucestershire; Mr. Denholm, Carbery Mains; Mr. David Curror, S.S.C., Edinburgh; Mr. Chandos, Pole Gell; Mr. Young, Keir Mains; Mr. Andrew Mitchell, Alloa; Mr. M'Laren, Mill Hill Farm, Inchture; Mr. James Moir, banker, Alloa; Mr. E. P. Angerstein, Kent; Mr. Robt. Mowbray, Cambus; Mr. R. P. Newton, Kerse, Falkirk; Mr. R. France, Airthly Lodge; Mr. Robert Campbell, Procurator-Fiscal, Stirling; Mr. Sartoris, Northamptonshire; Rev. W. Holt Beevor, Herefordshire; Mr. Larking, Sussex; Mr. Thomson, Penrith; Mr. Morris, Lancashire; Mr. Henry Fawcett, Leeds; Mr. J. E. Coleman, Stokepark, Buckinghamshire; Mr. Gow, Cambo, Northumberland; Mr. Singleton, Yorkshire; Mr. Kelloe, Gloucestershire; Mr. Witman, Boston; Mr. Phillips, Staffordshire; Mr. Drummond, Black Ruthven, Perth; Major Stapylton, Yorkshire. Mr. Brassey, M.P., Mr. Bowly, Mr. Aylmer, Mr. J. P. Foster, Mr. Drewry, Mr. C. A. Barnes, Mr. Smith (Sydney), Mr. McConnell (Australia), Mr. Garfitt, Mr. R. E. Oliver, Mr. Stiles Rich.

At the luncheon, Sir WILLIAM STIRLING-MAXWELL, the Chairman, said it was no small thing to be able to say—as he could say of the noble Lord—that he possessed at that moment the most select herd in Scotland. It was the largest herd, he believed, with the single exception of the one belonging to Mr. Cruickshank, in Aberdeenshire; but that herd had been growing to its present size for upwards of a quarter of a century, while the herd of Lord Dunmore came into existence in 1868. It was no small credit to the noble Lord—it was no small achievement—to have assembled in so short a time so many valuable specimens of the bovine aristocracy. He was sure he only expressed the sentiments of those present when he said that they ought to congratulate the noble Lord on the spirit and energy he had displayed, and the skill and judgment with which he had selected the valuable stock. He might say a great deal about the noble Lord's stock were he not precluded by time pressing, and were he not checked by the presence of the noble Lord himself. His Lordship came of a stock which had long been distinguished in Scotland, and the name he bore would in his hands lose nothing of its lustre. His family had for many generations been always forward in every good work. His more immediate predecessors, who were known to many present, had always taken the lead in everything which was for the public advantage. During the noble Lord's minority their place was most admirably filled by his noble and excellent mother, and since his noble friend had been in possession of his estates, he had made it his business not only to enjoy the prerogatives but to fulfil the duties of his station.

Lord DUNMORE said the efforts he had made for the progress of agriculture in that county and on his own estate had been very small; but he had had very great advantage in marrying into the best farming county in the world, and a great many "wrinkles" he had picked there had been carried out on this estate. With regard to the Shorthorns, he could only say that when he began, he thought the best thing he could do was to get the best blood, and he endeavoured always to get it. With regard to the cattle, there they were, and there was not the slightest reserve of a single penny on them. Had it not been for the foot-and-mouth disease he would have had a larger display; but he had lost seventeen calves from that disease. Perhaps that might be a guide as to future legislation on the subject. Although these were valuable animals, it came as hard on other people who had not the means to buy such valuable animals. He thought it was necessary that the Government of the country should take some measures to stop the foot-and-mouth disease. It was amongst their sheep, and unless something was done it would in a short time be as common as foot-rot. Sir William Stirling-Maxwell had done a great deal more for the good of the country than he (Lord Dunmore) had done. He had not only produced good Shorthorns but excellent Clydesdale horses, and he only wished that there were more proprietors who would follow the example of breeding fine cattle and fine horses, and having annual sales like Sir William Stirling-Maxwell.

COWS AND HEIFERS.

Princess, red, calved December 24, 1861; by May Duke (18320), dam Surmise by Duke of Gloucester (11382).—Mr. F. Sartoris, 115 gs.

Cleopatra VI., roan, calved August 10, 1861; by 9th Duke of Oxford (17738), dam Cleopatra 4th by Duke of Buckingham (14428).—Mr. E. J. Coleman, 40 gs.

Lady Thorndale, roan, calved April 11, 1863; by 3rd Duke of Thorndale (17749), dam Sensible by Hendon (14688).—Lord Chesham, 100 gs.

Lady Elvira, roan, calved June 6, 1863; by Lord Oxford (20214), dam Countess Emma by Heir-at-Law (13005).—Lord Chesham, 50 gs.

Siddington I., red and white, calved April 24, 1864; by 4th Duke of Oxford (11387), dam Kirklevington 7th by Earl of Derby (10177).—Mr. J. W. Larking, 260 gs.

Fawsley IV., red, calved March 4, 1865; by 4th Grand Duke (19874), dam Archduchess of Cambridge by Archduke 2nd (15588).—Sir W. S. Maxwell, 175 gs.

Fleda's Farewell, roan, calved March 20, 1865; by 9th Grand Duke (19879), dam Fleda by Grey Friar (9172).—Mr. H. Thompson, 62 gs.

Lany Geneva, roan, calved July 25, 1865; by Duke of Geneva (19614), dam Rosette by Marmaduke (14897).—Not offered.

Bright Eyes II., red, calved August 1, 1865; by Royal Butterfly 3rd (18754), dam Bonny by Oxford Duke (15036).—Mr. H. Brassey, Kent, 530 gs.

Princess Alexandra, rich roan, calved February 26, 1866; by Lord Jersey (20185), dam Wee Witch by Duke of Cambridge (12742).—Mr. J. Grant Morris, 100 gs.

Musical IX., roan, calved July 21, 1866; by 7th Duke of York (17754), dam Songstress by Mountaineer (14966).—Lord Fitzhardinge, 200 gs.

Fawsley Rose (late Fawsley McIntosh), red, calved July 20, 1867; by Baron Oxford (23375), dam Fawsley 4th by 4th Grand Duke (19874).—Mr. H. Thompson, 53 gs.

Royal Dora, white, calved December 20, 1867; by Royal Cambridge (25009), dam Turk's Darling by Royal Turk (16875).—Mr. H. Fawcett, 105 gs.

Lady Bright Eyes I., roan, calved August 24, 1868; by General Napier (24023), dam Bright Eyes 2nd by Royal Butterfly 3rd (18754).—Mr. H. Brassey, 360 gs.

Baroness Oxford, roan, calved February 16, 1868; by Baron Oxford 2nd (23376), dam California 8th by 2nd Duke of Thorndale (17748).—Mr. E. J. Coleman, Bucks, 61 gs.

Ursula XXX., roan, calved September 1, 1868; by 2nd Duke of Collingham (23730), dam Ursula 21st by 7th Duke of York (17754).—Mr. T. Gow, Northumberland, 105 gs.

Siddington VII., light roan, calved October 9, 1868; by 7th Duke of York (17754), dam Siddington 3rd by 7th Duke of York (17754).—Earl of Bective, 500 gs.

Viscountess Thorndale, roan, calved November 1, 1868; by 12th Duke of Thorndale (26020), dam Sultana 5th by Berlington Grand Duke (21274).—Mr. J. Singleton, Yorks, 50 gs.

Lady Winifred, red, calved November 14, 1868; by Grand Seigneur (28782), dam Cleopatra by 3rd Duke of Thorndale (17749).—Mr. J. Singleton, 71 gs. Her red B. C. by 2nd Duke of Collingham.—Mr. Allen, 36 gs.

Severn Lass, red and white, calved December 30, 1868; by 2nd Earl of Walton (19672), dam Duchess of Slimbridge by Chaffcutter (12572).—Earl of Cawdor, 70 gs. Her red B. C. by Baron Oxford V.—Rev. P. Graham, 30 gs.

Violet V., roan, calved April 14, 1869; by 6th Earl of Walton (26078), dam Violet by 7th Duke of York (17754).—Mr. E. J. Coleman, Bucks, 61 gs.

Lady Thorndale Bates II., roan, calved October 26, 1869; by 4th Duke of Thorndale (17750), dam Lady Bates 3rd by 4th Duke of Oxford (11387).—Earl of Bective, 805 gs.

Princess Cleopatra, roan, calved November 25, 1869; by General Napier (24023), dam Cleopatra 10th by Lord Oxford (20214).—Mr. Aug. Whitman, U. S. A., 90 gs.

Lady Bird VI., roan, calved March 11, 1870; by 3rd Duke of Geneva (23753), dam Lady Bird 5th by 4th Grand Duke (19874).—Mr. T. Gow, 150 gs.

Lady Emma, red, calved March 16, 1870; by Wild Boy (25447), dam Lady Elvira by Lord Oxford (20214).—Not offered.

Lady Jocelyn, roan, calved May 17, 1870; by Grand Duke 10th (21848), dam Elvira 10th by Richard (16834).—Mr. J. Singleton, 90 gs.

Wild Eyes Duchess II., red and white, calved March 16, 1870; by Earl of Eglinton (23832), dam Wild Eyes Duchess by Ninth Grand Duke (19879).—Lord Fitzhardinge, 265 gs.

Melody, red, calved March 10, 1870; by 2nd Duke of Collingham (23730), dam Musical 9th by 7th Duke of York (17754).—Mr. J. W. Philips, Staffordshire, 65 gs.

Cherry Princess, roan, calved April 2, 1870; by General Napier (24023), dam Cherry Duchess 8th by 3rd Grand Duke (16182).—Earl of Bective, 805 gs.

Henrietta XVII., roan, calved April 11, 1870; by 3rd Duke of Clarence (23727), dam Henrietta 9th by Duke of Wharfedale (19648).—Mr. E. J. Coleman, 58 gs.

Lany Bright Eyes II., red, calved May 27, 1870; by General Napier (24023), dam Bright Eyes 2nd by Royal Butterfly 3rd (18754).—Lord Feversham, 275 gs.

Sunshine, red, calved March 30, 1870; by 2nd Duke of Collingham (23730), dam 2nd Rose of Oxford by 4th Duke of Oxford (11387).—Mr. J. Drummond, 81 gs.

Grand Duchess of Athole, red, calved June 6, 1870; by 2nd Duke of Collingham (23730), dam Grand Duchess of Wales by 11th Grand Duke (21849).—Major Stapylton, 255 gs.

Marchioness II., roan, calved June 21, 1870; by 2nd Duke of Collingham (23730), dam Kirklevington 12th by 4th Duke of Oxford (11387).—Earl of Bective, 455 gs.

Marchioness III., roan, calved July 21, 1870; by Duke of Collingham (23730), dam Siddington 1st by 4th Duke of Oxford (11387).—Earl of Bective, 535 gs.

Marchioness of Oxford, roan, calved January 21, 1871; by Fourth Duke of Geneva, dam 8th Maid of Oxford by 2nd Duke of Geneva (23752).—Mr. R. Pavin Davies, Gloucestershire, 1,010 gs.

Sunbeam, roan, calved March 10, 1871; by 2nd Duke of Collingham (23730), dam 2nd Rose of Oxford by 4th Duke of Oxford (11387).—Not offered.

Lady Bright Eyes III., roan, calved May 12, 1871; by 7th Duke of York (17754), dam Bright Eyes 2nd by Royal Butterfly 3rd (18754).—Duke of Devonshire, 375 gs.

Selina VI., roan, calved May 28, 1871; by 2nd Duke of Collingham (23730), dam Selina 5th by Grand Duke of Lancaster (19883).—Lord Chesham, 71 gs.

Oxford Duchess, red and white, calved July 2, 1871; by 6th Duke of Geneva, dam 11th Lady of Oxford by Baron of Oxford (23371).—Mr. R. Pavin Davies, 1,200 gs.

Marchioness V., red and white, calved June 3, 1871; by 2nd

Duke of Collingham (23730), dam Siddington 1st by 4th Duke of Oxford (11387).—Rev. P. Graham, 270 gs.
 Guinevere, red, calved August 2, 1871; by 2nd Duke of Collingham (23730), dam Lady Geneva by Duke of Geneva (19614).—Lord Chesham, 60 gs.
 Cygnet, red, calved November 15, 1871; by 2nd Duke of Collingham (23730), dam Baroness Oxford by Baron Oxford 2nd (23376).—Rev. R. B. Kennard, Dorset, 50 gs.
 Minstrel, roan, calved January 23, 1872; by 2nd Duke of Collingham (23730), dam Musical 9th by 7th Duke of York (17754).—Mr. E. J. Coleman, 62 gs.
 Marchioness of Oxford II., red and white, calved February 6, 1872; by 6th Duke of Geneva, dam 8th Maid of Oxford by 2nd Duke of Geneva (23752).—Mr. W. Angerstein, 560 gs.
 Lady Julia, red and white, calved March 20, 1872; by 2nd Duke of Collingham (23730), dam Lady Thorndale by 3rd Duke of Thorndale (17749).—Lord Chesham, 51 gs.
 Lady Constance, roan, calved March 20, 1872; by Baron Oxford 5th (27958), dam Princess Cleopatra by General Napier (24023).—Mr. W. Angerstein, 100 gs.
 Lady Anne, red, calved April 13, 1872; by 2nd Duke of Collingham (23730), dam Selina 5th by Grand Duke of Lancaster (19883).—Rev. R. B. Kennard, 40 gs.
 Lady Mary, roan, calved April 6, 1872; by Baron Oxford 5th (27958), dam Lady Bird 6th by 3rd Duke of Geneva (23753).—Mr. T. Gow, 110 gs.
 Lady Margaret, roan, calved May 21, 1872; by 2nd Duke of Collingham (23730), dam Cleopatra 6th by 9th Duke of Oxford (17738).—Mr. E. J. Coleman, 170 gs.
 Lady Mildred, roan, calved May 31, 1872; by Baron Oxford 5th (27958), dam Viscountess Thorndale by 12th Duke of Thorndale (26020).—Mr. E. J. Coleman, 51 gs.

BULLS.

Baron Oxford V. (27958), red and white, calved February 2, 1870; by 2nd Duke of Claro (21576), dam Lady Oxford 5th by 3rd Duke of Thorndale (17749).—Duke of Devonshire, 400 gs.
 Marquis II., red and white, twin, calved May 22, 1871; by 2nd Duke of Collingham (23730), dam Kirklevington 12th by 4th Duke of Oxford (11387).—Mr. T. Gow, 80 gs.
 Marquis III., roan, calved July 13, 1871; by 2nd Duke of Collingham (23730), dam Siddington 7th by 7th Duke of York (17754).—Mr. E. J. Coleman, 255 gs.
 Knightley Honour (28991), red, calved October 2, 1870; by Grand Duke of Lightburne (26290), dam Fawsley 4th by 4th Grand Duke (19874).—Lord Rosslyn, 61 gs.
 General Trochu, roan, calved February 21, 1871; by Edgar (19680), dam Fleda's Farewell by 9th Grand Duke (19879).—Col. H. Bruce, 63 gs.
 Prince of Perth, red, calved November 19, 1871; by 2nd Duke of Collingham (23730), dam Princess by May Duke (13320).—Mr. W. Thompson, 92 gs.

SUMMARY.

	Average.	Total.
48 Cows	£252 10 0	£12,120 3 0
6 Bulls	166 8 6	998 11 0
54	£242 18 9	£13,118 14 0

SALE OF

MESSRS. HARWARD'S AND DOWNING'S
HERDS OF SHORTHORNS,

AT WINTERFOLD, KIDDERMINSTER, SEPT. 18, 1872.

By MR. H. STRAFFORD.

These herds of Shorthorns had a separate existence and treatment, but were one, inasmuch as the bulls, Third Duke of Claro and Eighth Duke of Geneva, were concerned. Mr. Harward's stock was raised at Winterfold, a place both naturally and artificially adapted for well-bred cattle. The rich grass-land, the excellence of the arable soil, the capacious dimensions of the buildings, combined with judicious management, all blended in the end to produce good cattle and sheep—for a splendid flock of Shropshire Downes was also scattered about the

farm. From the appearance of Mr. Downing's Shorthorns, it seemed that Nature had not been so liberal in assisting judgment, Turner's Hill, it was said, being within a mile or two of Dudley, in the black country. Be that, however, as it may, Mr. Downing has been the purchaser of many a good lot at the ring-side during the past ten years. The herds were started originally with purchases from Mr. Rich, of Didmorton, and at Mr. Maynard's sale. Mr. Harward bought his first cow, Clear Star, of the Wild Eyes strain, for 50 gs., and how this family has in a few years increased in value remains to be seen. The most successful investment was buying up nearly the whole of Mr. C. W. Harvey's herd at Walton-on-the-Hill, including the Lallys, Kirklevingtons, and Wild Eyes families. Third Duke of Wharfedale was hired from Captain Gunter, and Fifth Duke of Wharfedale bought as a calf for 500 gs. Third Duke of Claro was a similar purchase, and with these bulls the herd was fairly launched on the "Bates and no surrender" principle. In 1863, the first draft sale was made. Forty-nine head were sold, including the bull Charleston (21400), of the Lally tribe, for an average of £31 5s. The year before, however, Mr. Downing bought the American imported cow Fifth Maid of Oxford for 200 gs., and she produced four calves, three of which were bulls. Negotiations were afterwards made for the purchase of the young bull Eighth Duke of Geneva, from Mr. Sheldon in America, and he came to this country in 1869 with 800 gs. and expenses on his head. Last year another draft sale was made, almost as disappointing in its results as the previous one. Two or three fashionably bred Kirklevingtons pulled up the average to £54 15s. for 50 head. Two Oxford bulls were reserved at 100 gs. each, and the eleven remaining made but £30 average; consequently the cream of both herds were left, and last spring it was announced that the declining health of Mr. Downing would lead to the dispersion of the herds which had been gathered together with so much care and cost. It was thought by a few that the Dunmore sale, preceding that at Winterfold, would have a tendency to damp the business; but on the contrary, the fillip given to the trade by that great and successful sale only made other purchasers more keen to buy; so that there was not only a large attendance last Wednesday, but men who had come from all parts determined to have something. The old story of many going empty away was duly fulfilled; but the others of course had to pay for those they bought.

Breakfast, in earnest, was laid at eleven o'clock, and the company going to Rome had to do as Rome did; tea and coffee took the place of sherry and champagne. Soda water, potash water, lemonade, or ginger-beer sounded like a novelty to the ear of a Shorthorn man, but countless bottles were emptied, and a private sherry flask as well. Of eatables there was no lack.

The cows were throughout a good lot, and when shown in the park looked even better than they did in the ring. Without catalogue, the striking lots were the short pedigree Cambrias and the Lady Worcesters, a branch of the Wild Eyes strain through Mr. Maynard, whose Red Duke and Marton Duke gave a strength and substance to the tribe that was not observable in the same family without these crosses. The capital prices made by this family—£350 average for nine, against £250 for six of the purer tribe—is a step in favour of superior animals with a little fresh blood going higher than the purer specimens of the same kind.

The Lallys, though of remarkably pure pedigree and great favourites of their owners, were of a smaller build and lighter character than the Worcesters; but they of course commanded a high price, being of the pure Bates blood, as bull breeders they are not equal to the Wor-

cesters, the young calf of this line fetching 170 gs., against 155 gs. for the yearling Lally bull.

Business commenced punctually at twelve o'clock. Mr. Strafford spoke with much regret of the dispersion of the herds, and remarked that such a collection of Bates' animals had not been before the public for many years. May Fly, the first lot, was hardly in a breeding state, and lot 2 was withdrawn. Surmise 3rd, a massive good plain-coloured cow, made the first good price, and lot 4 was dead. Then came Clear Star, one of the best cows in the herd, of large size, with a great barrel, somewhat thin in the crops, but with the unmistakable Bates neck and style, and darkish up-turned horns. Messrs. Drewry, Foster, and More, were dangerous opponents all through the sale, and they ran this cow up to 205 gs., when Mr. Thornton got her at 210 gs. Wild Eyes 24th was certainly not a handsome beast, and common-looking both in her colour and quarters, still she made a high price, being just due to calve. Lot 9, an even fine cow, rather short of hair, went reasonably enough. Lot 10 was rather doubtful as a breeder. Lot 11, Kirklevington 17th, was also a very useful cow, with big hips and good ribs; this tribe, however, did not come out so remarkably well, Mr. Harward having sold his portion of it last year. The Fifth Maid of Oxford created much competition. A large fine cow, rather up in her back, but looking well in the ring, brought out a rattling 500 gs. from Mr. Leney. Mr. Bland for Mr. Angerstein, and Lord Bective, were both against Mr. Geo. Moore, whose 900 gs. secured her for Whitehall, due to calve, and a heifer-calf will at once repay what may seem a large outlay. So much doubt arising about Wild Eyes 29th Mr. Harward came forward and offered to guarantee her as a breeder, and should she fail to produce a live calf the cow was to be sent back and the money returned. This same guarantee was given on lot 27, sold for 405 gs., and lot 29 265 gs. Mr. Strafford's commission for Col. Morris of New York was well executed on the Cambrias, and two or three other beautiful young animals. Indeed, the excellence of the two-year-old and yearling heifers was the talk of the company; they were mostly beautiful roans or reds, full of hair and in that state of condition called by the outside public "fat." When in the ring they showed that remarkable elevation of neck and head, that nervous high-bred appearance which seems to sink the back down, that is so admired and so conspicuous in the highest-bred Bates cattle. The biddings accordingly for the younger ones were very brisk, the best specimens going exceedingly high. Lady Worcester 9th and Lally 15th were two of the finest specimens; the latter, a lovely roan and very full of hair, went finally to the Duke of Devonshire for 500 gs.

The two Duke bulls were the great attraction, and very wisely the Eighth Duke of Geneva was brought in first. This bull, in the very prime of his life and vigour, came out only as Bates' bulls can, with imposing grandeur of head and crest. He is not large, and he might be a trifle better in his hind quarters, and rounder in his barrel. He is evidently a capital sire, as doubtless at the present day one of the finest bulls in the country, and as the auctioneer remarked, nearest to Mr. Bates of anything in the world. "Who says a thousand?" was answered by 900 from Lord Bective; the biddings then were brisk between the triumvirate from Cumberland and Mr. Leney from Kent, at 1,550 gs. The glass had nearly gone, when Lord Bective's sudden 1,600 gs. created a dispute. Mr. Leney quickly covered it with 50 gs., and got the bull for his large and first-class herd in Kent at 1,650 gs. Third Duke of Claro, although white, had the same high-bred character as the Eighth Duke of Geneva, but an advance of age by three years. In the opinion of several he was equally as fine a bull, and of the stamp of Seventh

Duke of York, who was the sire both of his sire and dam. He was put in at 400 gs., and Lord Fitzhardinge and Mr. Graham both were in till 600; but Mr. Angerstein got him at an advance of 20 gs. The other bulls sold well, though in no proportion to their dams. Mr. Blundell got a very good young bull in Earl of Strafford at 155 gs.; and Major Fanning takes Wild Eyes Lad, somewhat deficient in girth, to Australia at 170 gs. Mr. Pulley went in boldly for Lord Claro 2nd, of the Worcester tribe, which goes into Herefordshire for 170 gs. The other calves made fair prices, and soon after four this extraordinary sale was concluded.

Taking the 56 cows, heifers, and calves, and the 11 bulls and bull-calves which were catalogued, numbered, and brought into the ring separately, we find a total of £15,458 2s. This includes the three guaranteed animals which realised £876 10s., and taking them as well as the calves into the average, deducting the three animals withdrawn, we have an average of £241 10s. 8d. for 64 head. A good deal of controversy arose as to the result of this sale and the recent one at Dunmore. Both were extraordinary successes, but inasmuch as the Dunmore was only the outside portion, the more valuable and better animals being retained for the continuance of the herd, as at Holker last year, so the Winterfold sale was the cream of the two herds, after two drafts had been sold off at considerably lower prices, and certainly in lower priced times. The sum of 1,650 gs. is the utmost that has been reached, as yet, for a Shorthorn, and these high figures, so remunerative to the breeder, must certainly encourage Shorthorn breeding in general and Bates' blood in particular. Subjoined are the prices:—

COWS AND HEIFERS.

May Fly, roan, calved February 14, 1859; by Duke of Moscow (14447), out of Constance by Selim (6454).—Mr. Bennion, 41 gs.
 Surmise 3rd, red and white, calved January 31, 1861; by May Duke (13320), out of Surmise by Duke of Gloucester (11382).—Mr. Robinson, 125 gs.
 Clear Star, red, calved May 14, 1862; by Marton Duke (22307), out of Bright Star by Red Duke (18676).—Mr. Thornton, 210 gs.
 Wild Eyes 24th, red and white, calved August 30, 1862; by 4th Duke of Oxford (11387), out of Wild Eyes 22nd by Wild Duke (19148).—Mr. Crabb, 180 gs.
 Lady Oxford, red and white, calved August 3, 1863; by Imperial Oxford (18084), out of Lady Gloucester by Harry of Gloucester (14674).—Mr. Christy, 31 gs.
 Sidonia, roan, calved September 22, 1863; by John o'Gaunt (16322), out of Siddons by Grand Sultan (16189).—Mr. Bowly, 42 gs.
 Cleopatra 9th, rich roan, calved November 15, 1863; by Lord Oxford (20214), out of Cleopatra 4th by Duke of Buckingham (14428).—Mr. Coleman, 78 gs.
 Lally 5th, roan, calved March 9, 1865; by Duke of Wetherby (17753), out of Lally 2nd by Malachite (18313).—Mr. Foster, 85 gs.
 Kirklevington 17th, red, calved July 31, 1865; by Lord Lally (22161), out of Kirklevington 10th by Delhi (15865).—Mr. Larking, 240 gs.
 Fifth Maid of Oxford, roan, calved August 30, 1865; by 7th Duke of Airdrie (23718), out of Oxford 20th by Marquis of Carrabas (11789).—Mr. G. Moore, 900 gs.
 Ketura 3rd, rich roan, calved March 22, 1866; by 7th Duke of York (17754), out of Ketura 2nd by Archduke (17316).—Mr. Perry, 47 gs.
 Lady Worcester 2nd, red, calved June 16, 1866; by Charleston (21400), out of Clear Star by Marton Duke (22307).—Mr. Barton, 310 gs.
 Oxford Donna, red and white, calved August 14, 1866; by Didmarton Duke (21546), out of Lady Oxford by Imperial Oxford (18084).—Mr. Moore, 40 gs.
 Lally 7th, red, calved September 30, 1866; by 3rd Lord Oxford (22200), out of Lally 2nd by Malachite (18313).—Mr. Larking, 305 gs.
 Ursula 23rd, white, calved October 25, 1866; by 7th Duke of

- York (17754), out of Duchess of Glo'ster by Duke of Glo'ster (11382).—Mr. McIntosh, 50 gs.
- Cambria 3rd, red, calved November 19, 1866; by Charleston (21400), out of Cambria by Cupid (14359).—Col. Morris, 85 gs.
- Wild Eyes 29th, roan, calved June 4, 1867; got by Earl of Glo'ster (21644), out of Wild Eyes 23rd by Wild Duke (19148).—Mr. Barber, 160 gs.
- Wild Eyes 30th, roan, calved November 8, 1867; by 7th Duke of York (17754), out of Wild Eyes 24th by 4th Duke of Oxford (11387).—Mr. Angerstein, 200 gs.
- Lally 8th, roan, calved November 12, 1867; by 7th Duke of York (17754), out of Lally 3rd by 4th Duke of Oxford (11387).—Mr. Angerstein, 600 gs.
- Lally 9th, roan, calved November 22, 1867; by 7th Duke of York (17754), out of Lally 2nd by Malachite (18313).—Mr. Fawcett, 300 gs.
- Lady Worcester 3rd, roan, calved December 1, 1867; by 3rd Duke of Wharfdale (21619), out of Clear Star by Marton Duke (23307).—Mr. Ashburner, 605 gs.
- Cambria 4th, roan, calved March 6, 1868; by 2nd Duke of Wetherby (21618), out of Cambria by Cupid (14359).—Col. Morris, 90 gs.
- Kirklevington 21st, roan, calved April 30, 1868; by 4th Duke of Thordale (17750), out of Kirklevington 16th by Duke of Wetherby (17753).—Mr. Bowly, 210 gs.
- Lally 10th, roan, calved June 22, 1868; by 5th Lord Wild Eyes (26762), out of Lally 5th by Duke of Wetherby (17753).—Lord Skelmersdale, 405 gs.
- Lady Dudley 6th, roan, calved September 17, 1868; by 3rd Duke of Claro (23729), out of Soprano by Fitzroy (16058).—Mr. J. Webb, 51 gs.
- Lady Waterloo, white, calved December 7, 1868; by 3rd Duke of Claro (23729), out of Waterloo Cherry by Cherry Duke 4th (17552).—Mr. F. Leney, 265 gs.
- Clara Novello 4th, roan, calved December 11, 1868; by 3rd Duke of Claro (23729), out of Clara Novello 2nd by Charleston (21400).—Mr. Kennard, 85 gs.
- Lady Dudley 7th, roan, calved February 11, 1869; by 3rd Duke of Claro (23729), out of Lady Dudley by 3rd Duke of Lancaster (19624).—Mr. Christy, 81 gs.
- Lady Worcester 5th, roan, calved March 30, 1869; got by 3rd Duke of Claro (23729), out of Lady Worcester 2nd by Charleston (21400).—Mr. Barton, 510 gs.
- Tacita 3rd, roan, calved May 19, 1869; by 3rd Duke of Claro (23729), out of Surmise 3rd by May Duke (13320).—Col. Morris, 260 gs.
- Lally 13th, roan, calved July 10, 1869; by 3rd Duke of Claro (23729), out of Lally 3rd by 4th Duke of Oxford (11387).—Mr. Sheldon, 620 gs.
- Lady Blanche 2nd, roan, calved October 28, 1869; by 3rd Duke of Clair (23729), out of Cherry Blanche by Cherry Duke 4th (17552).—Mr. Thornton, 120 gs.
- Lady Worcester 6th, roan, calved December 20, 1869; by 3rd Duke of Claro (23729), out of Clear Star by Marton Duke (23307).—Mr. Larking, 360 gs.
- Duchess Blanche, roan, calved March 15, 1870; by 3rd Duke of Claro (23729), out of May Fly by Duke of Moscow (14447).—Mr. Garfit, 265 gs.
- Lady Worcester 7th, white, calved April 17, 1870; by 3rd Duke of Claro (23729), out of Lady Worcester by Charleston (21400).—Mr. Garfit, 215 gs.
- Cambria 5th, roan, calved August 17, 1870; by 3rd Duke of Claro (23729), out of Cambria 2nd by Emperor (19693).—Col. Morris, 95 gs.
- Cambria 6th, roan, calved March 24, 1871; by 3rd Duke of Claro (23729), out of Cambria by Cupid (14359).—Col. Morris, 200 gs.
- Lally 14th, roan, calved April 16, 1871; by 8th Duke of Geneva (28390), out of Lally 10th by 5th Lord Wild Eyes (26762).—Lord Skelmersdale, 305 gs.
- Cambria 7th, white, calved April 15, 1871; by 3rd Duke of Claro (23729), out of Cambria 3rd by Charleston (21400).—Mr. Kennard, 72 gs.
- Wild Eyes Lassie, roan, calved July 3, 1871; by 3rd Duke of Claro (23729), out of Wild Eyes 24th by 4th Duke of Oxford (11387).—Mr. Foster, 420 gs.
- Lady Blanche 3rd, roan, calved July 10, 1871; by 8th Duke of Geneva (28390), out of Cherry Blanche 2nd by Charleston (21400).—Col. Morris, 205 gs.
- Lady Worcester 9th, roan, calved August 19, 1871; by 3rd Duke of Claro (23729), out of Lady Worcester 2nd by Charleston (21400).—Mr. Thornton, 420 gs.
- Cambria 8th, roan, calved September 8, 1871; by 3rd Duke of Claro (23729), out of Cambria 2nd by Emperor (19693).—Lord Penrhyn, 66 gs.
- Lady Dudley 10th, roan, calved August 26, 1871; by 3rd Duke of Claro (23729), out of Soprano by Fitzroy (16058).—Mr. J. Webb, 40 gs.
- Tacita 5th, roan, calved September 10, 1871; by 3rd Duke of Claro (23729), out of Surmise 3rd by May Duke (13320).—Mr. Foster, 200 gs.
- Joan of Arc 2nd, white, calved February 10, 1872; by 3rd Duke of Claro (23729), out of Joan of Arc by Cupid (14359).—Mr. Brown, 40 gs.
- Cambria 9th, white, calved March 5, 1872; by 3rd Duke of Claro (23729), out of Cambria 4th by 2nd Duke of Wetherby (21618).—Lord Penrhyn, 60 gs.
- Kirklevington 25th, roan, calved June 9, 1872; by 3rd Duke of Claro (23729), out of Kirklevington 17th by Lord Lally (22161).—Mr. Brogden, 220 gs.
- Cambria 10th, white, calved June 8, 1872; by 8th Duke of Geneva (28390), out of Cambria 3rd by Charleston (21400).—Mr. Hancock, 41 gs.
- Lady Wild Eyes, red and white, calved July 6, 1872; by 8th Duke of Geneva (28390), out of Wild Eyes 24th by 4th Duke of Oxford (11387).—Mr. Brogden, 260 gs.
- Lady Worcester 10th, red and white, calved July 18, 1872; by 8th Duke of Geneva (28390), out of Lady Worcester 2nd by Charleston (21400).—Mr. G. Moore, 240 gs.
- Lally 15th, roan, calved July 19, 1872; by 8th Duke of Geneva (28390), out of Lally 8th by 7th Duke of York (17754).—Duke of Devonshire, 500 gs.
- Lally 16th, white, calved September 9, 1872; by 3rd Duke of Claro (23729), out of Lally 9th by 7th Duke of York (17754).—Mr. Moore, 204 gs.

BULLS.

- Third Duke of Claro (23729), white, calved May 30, 1866; by 2nd Duke of Wharfdale (19649), out of Duchess 87th by 7th Duke of York (17754).—Mr. Angerstein, 620 gs.
- Eighth Duke of Geneva (28390), roan, calved November 24, 1868; by Baron of Oxford (23371), out of 3rd Duchess of Thordale by Duke of Glo'ster (11382).—Mr. F. Leney, 1,650 gs.
- Earl of Strafford, white, calved June 22, 1871; by 8th Duke of Geneva (28390), out of Lally 8th by 7th Duke of York (17754).—Mr. Blundell, 155 gs.
- Wild Eyes Lad, roan, calved September 7, 1871; by 8th Duke of Geneva (28390), out of Wild Eyes 30th by 7th Duke of York (17754).—Major Fanning, 170 gs.
- May Duke 2nd, white, calved February 7, 1872; by 3rd Duke of Claro (23729), out of May Fly by Duke of Moscow (14447).—Mr. Webb, 30 gs.
- Lord Claro 2nd, rich roan, calved March 2, 1872; by 3rd Duke of Claro (23729), out of Clear Star by Marton Duke (23307).—Mr. Pulley, 170 gs.
- Earl of Powis, roan, calved April 30, 1872; by 8th Duke of Geneva (28390), out of Cambria by Cupid (14359).—Mr. Jones, 71 gs.
- Owen Glendwr, red roan, calved December 20, 1871; by 3rd Duke of Claro (23729), out of Sidonia by John O'Gaunt (16322).—Mr. Woodward, 40 gs.
- Gay Boy, roan, calved January 3, 1872; by 3rd Duke of Claro (23729), out of Oxford Donna by Didmarton Duke (21546).—Earl Beauchamp, 60 gs.
- Wild Eyes Duke, white, calved August 18, 1872; by 3rd Duke of Claro (23729), out of Wild Eyes 30th by 7th Duke of York (17754).—Duke of Manchester, 40 gs.
- Tacitus 2nd, roan, calved September 6, 1872; by 3rd Duke of Claro (23729), out of Surmise 3rd by May Duke (13320).—Mr. Fowler, 51 gs.

SUMMARY.

	£	s.	d.	£	s.
52 cows and heifers averaged	237	7	7	12,343	16
9 bulls	346	0	8	3,114	6
61 head	253	7	0	15,458	2

MR. G. M. SEXTON'S STOCK SALE, AT WHERSTEAD, SUFFOLK.

Mr. Sexton, who carries on a business as auctioneer, is relinquishing two out of three farms at Wherstead—Bourne Hall, and the Park Farm—which he has held with his brother, Mr. Henry Sexton, who is removing to Thorington Hall Farm, in the same parish, and hence the sale. There were 22 Suffolk horses, a bay hunting gelding, a harness cob, two Norway ponies, 40 head of Short-horn cattle, 200 sheep, and 150 boars and sows. The sale was conducted by Mr. Henry Grimwade, commencing with the pigs. The purchases by Mr. Hindson were understood to be on commission for the American and foreign markets. Subjoined are the names of the buyers, with the prices given:

BLACK SOWS.—Turner, 16gs.; Hindson, 9½gs.; Hindson, 15gs.; Everett, 13gs.; Rose, 6½gs.; J. Mudd, 5½gs.; Hope, 6½gs.; Hindson, 15gs.; Walker, 6gs.; Rose, 10gs.; Knights, 7½gs.; Everett, 7½gs.; Knights, 11½gs.; Rose, 6gs.; Royds, 17gs.; H. Biddell, 7½gs.; Rose, 14½gs., 16gs., 16gs.; Harding, 17gs., 14gs., 12½gs.; Everett, 8½gs.; Hope, 15½gs.; Mutton, 15½gs.; Waite, 9½gs.; Mersey, 7gs.; Jillings, 5½gs.; Waite, 7gs.; Hope, 10½gs.; Jillings, 4½gs.; Packard, 7½gs.; Jillings, 4½gs., 6½gs.; Fielding, 7½gs.; Everett, 6gs.; Cobbold, 6½gs.; Garrett, 6gs.; Everett, 8½gs.; Jillings, 5gs.; Everett, 9gs.; R. Garrett, 6½gs.; Waite, 8gs.; Lord Rendlesham, 8½gs.; Jillings, 4½gs.; Waite, 6gs.; G. Fiske, 6½gs., 7gs.; J. Forder, 4gs.; W. Grimwade, 4½gs.; Bigsby, 7gs.; Moore, 5gs.; Jillings, 4gs.; Sir W. Jones, 5gs.

BLACK BOARS.—Lord Rendlesham, 12½gs.; Rose, 13½gs.; Kersey, 7gs.; H. Biddell, 6½gs.; Bigsby, 7gs.; Hope, 9gs.; Hindson, 13½gs.; Grimwade, 8gs.; R. Garrett, 7gs.; Hawkins, 9gs.; Robinson, 7½gs.; Walker, 5½gs.; Everett, 8gs.; Knights, 9gs.; Bigsby, 5½gs.; B. King, 4½gs.; Everett, 7gs.; Bloomfield, 4½gs.; Sewell, 9gs.; Harding, 7gs.; Boggis, 6gs.; Cobbold, 6gs.; Packard, 7gs.; Schofield, 5½gs.; Daniels, 5½gs.; Jillings, 4½gs.; Marshall, 4½gs.; Everett, 6gs.; Brook, 4gs.; Nunn, 5½gs.; Sir W. Jones, 5gs.

WHITE SOWS.—M. Biddell, 8gs.; Scott, 8½gs.; H. Biddell, 6½gs.; S. Wolton, 6½gs.; Pettitt, 4½gs.; Walker, 5gs.; Hindson, 16gs., 14½gs.; Bigsby, 5½gs.; Jillings, 4½gs.; Walker, 6gs.; Waterman, 5gs.; Biddell, 10gs.; Lord Rendlesham, 5gs.; Dodd, 5½gs.; S. Wolton, 10gs.; F. Waller, 4½gs.; Reynolds, 3½gs.; Jillings, 4gs.; Everett, 4½gs.; Page, 6½gs.; Walker, 5gs.; Dodd, 6gs.; Rowland, 3½gs.; Semon, 2½gs.; Biddell, 5gs.; Cobbold, 4½gs.; Hare, 4gs.; M. Biddell, 5gs.

WHITE BOARS.—S. Wolton, 23½gs.; Scott, 7½gs.; Walford, 5gs.; Davis, 5gs.; Jillings, 4½gs.; Fairweather, 5gs.; Everett, 4gs.; Dodd, 3½gs.; Hustler, 3½gs.; M. Biddell, 4gs.; Winnell, 4½gs.; Hustler, 4gs.; Scott, 5½gs.; J. Grout, 4½gs.; Pettitt, 4gs.; B. B. H. Rodwell, 4gs.; G. D. Badham, 17gs.; Kerry, 4½gs.; Walker, 4½gs.; Page, 2½gs.

14 Berkshire sows and a few boars of the same breed sold at from 6gs. to 8gs. for sows with pigs or in-pig, and 5gs. to 7gs. for the boars; the cows averaged from 20gs. to 27gs. each; the sheep from 70s. to 80s. each; and the black-faced cranes 50s. 6d. The horses from Bourne Hall were seven in number, and sold at from 45gs. to 61gs. Mr. R. Garrett was the purchaser of a mare for 55gs. From the Park Farm there were about twenty, including a hunting gelding and some cobs. The top price here was 80gs., given by Mr. R. Garrett, for Bragg, a mare in foal. A gelding was purchased by Mr. Curragh for 65gs., and another went to him for 59gs. Diamond, a mare with foal at foot, was sold, without the foal, to Mr. H. Biddell for 47gs., and the foal to Mr. Ind for 22½gs. One yearling gelding went, at 33½gs., to Mr. Goddard, and a filly to Mr. Pettitt for 48gs. Mr. Pettitt also bought two other yearling fillies at 35gs. each, and one sold to Mr. Cockerell for 27gs., and another to Mr. S. Wolton for 25gs. A bay gelding, described as a 12-stone hunter, by Caliban, five years old, was bought by Mr. J. Grout for 50gs. The total amount was about £3,375; the pigs realising £1,168 10s.; the horses, £1,088 17s.; and the cattle, £746 11s.

MR. ALLEN'S SHORTHORNS.—This sale, which had been postponed from August 27 on account of foot-and-mouth disease, took place on Sept. 19th at Thur-

maston, Leicester. The catalogue comprised the larger portion of the herd, which was quite of a dairying character, several of the animals being of short pedigree. The Bingley Hall sale of sheep took a good many farmers and others to Birmingham, and the attendance was not strong. The cattle had regained their condition, but one or two were still lame, and having so recently gone through the disease this no doubt caused some hesitation among the buyers. The prices ranged for cows and heifers from 30 to 40 gs. Lot 9 Japonica, of the Knightley blood, going for 45 gs., and Garland for 41 gs. Lot 24 Minetta was bought by the Rev. J. Swarbrick for 46 gs., and he also gave 30 gs. for Fawsley Queen 2nd. The calves sold well. The bull Duke of Waterloo was reserved at 100 gs., and Captain Blithe, a handsome red calf, fetched 51 gs. (H. Smith). The sum total of the sale amounted to £1,435 7s., being an average of £27 12s. for 52 head. There was but a slight demand for the Leicester sheep. Mr. Thornton was the auctioneer.

SHEEP SALES AND RAM LETTINGS.

SHROPSHIRE.—Messrs. Lythall and Clarke held their fifth sale in the Smithfield, Shrewsbury, last month, when they disposed of about eighty rams and a hundred ewes. The sale, on the whole, was very satisfactory, any sheep of more than usual excellence making high prices. Mr. W. O. Foster sent fifteen rams, the first of which (being his Royal Show sheep), after a brisk competition, realised 55 guineas, to Mr. Groves, of Brompton, the remainder making from 8 to 10 gs. each. Mr. W. Picken's eight shearlings by a ram of Mrs. Beach's made from 5 to 6½ gs. Fifteen from the Coalbrookdale Iron Co., which were low in condition, and rather small-made, from 4½ to 6½ gs. Mr. J. Pulley sent fifteen shearlings. These were big, long sheep, with good heads and true colour, and had they been in higher condition, would no doubt have made very high prices. As it was they ranged from 6 to 15 gs. Mr. Tanner's seven realised from 5½ to 18 gs., and twenty Oxfordshire Down rams, from Mr. John Bryan, of Southleigh, were disposed of principally to Irish gentlemen at from 7½ to 13 gs. Mr. W. O. Foster's ewes made from 65s. to 100s., and those of the Coalbrookdale Iron Company from 54s. to 66s.

SHROPSHIRE RAMS.—Mr. Baker's, of Moor Barns, Warwickshire, were sold by Messrs. Lythall and Clarke, on Wednesday last. The sale of 36 rams averaged £17 13s. 6d.; and for 55 ewes and theives, 101s.

LINCOLNSHIRE RAM SALES.—On Thursday the Biscathorpe flock was brought to the hammer. For above a hundred years the Rickham rams have been let, and this being the first opportunity offered to home-breeders of purchasing from such an old-established and valuable flock a large company of ram-breeders and wool-growers assembled from all parts of the country. The prices realised were above the average, and the competition was very brisk to secure some of the shearlings. Sixty-eight shearlings sold for 1,772 guineas, being an average of £27 7s. 2½d.; sixteen two-shear sheep sold for 357 gs., being an average of £23 8s. 6½d. each; thirty-six three-shear and upwards realised 793½ gs., averaging £23 2s. 10½d. each. The 120 sheep were knocked down for £3,068 12s. 6d., giving a general average of £25 11s. 6d. Great sympathy was expressed for Mr. Kirkham, and great regret at his probable retirement from ram-breeding, he being under notice to quit the Biscathorpe farm or pay a much larger rent. For a hundred years there has been a progressive and enterprising attempt to secure and perpetuate for the old Hagnaby and Biscathorpe flock every excellency.

THE PANTON RAMS.—Lot 5, a shearling, was let to Mr. C. Ward at 31 guineas. Mr. E. J. Davy secured Lot 10 at 24 guineas; Lot 13, a shearling was knocked down to Mr. Hesselstine at 50 guineas; and Mr. C. Minta became the purchaser of Lot 17 at 32 guineas. A two-shear was secured by Mr. Marshall, Branton, at 35 guineas. The fifty-two shearlings realised £718 14s. 6d., being an average of £13 16s. 5d. each, and the eight older sheep made £131 5s., an average of £16 8s. 1½d. The sixty rams thus produced £842 19s. 6d., the average being £14 3s. 4d.

THE AYLESBY MANOR RAMS.—The pure-bred Leicester flock of sheep has for between eighty and ninety years been at Aylesby Manor, the late Mr. Skipworth being the founder. The unfortunately now too prevalent foot-and-mouth disease has not passed this flock scatheless; two prime animals, one of them costing 117 guineas, selected from the premier flock in the British Empire, fell victims to its insidious march; these, however, did not represent and include the total ravages by that disastrous epidemic. The flock generally has survived the attack, and on Wednesday a clean bill of health was presented. The sheep were let, as usual, privately, and in these lettings most of the sheep breeding centres of the British Empire were represented. The average of the entire letting was 16 guineas per head. In addition to which some animals were sold out and out for the British Colonies and South America, the latter country being represented by Mr. Evans, a gentleman who was formerly an agricultural pupil with the late Mr. T. Brooks, of Croxby, near Caistor.

SALE OF THE OWERSBY RAMS, BY MR. CALTHROP.—Few places in North Lincolnshire present greater attraction to the outside world, as well as agriculturists, than Owersby; and the name of Davy is much valued. The eighty-eight animals were disposed of at an average of £14 7s. 9½d. each shearing. There was a supplementary lot of sheep sold afterwards, Mr. John Greetham of Stainton-le-Vale being the principal purchaser.

THE ANNUAL SALE OF LAMBS AT CARNWATH.—There would be fully 3,000 head sold, consisting principally of crosses and blackfaced ewe and wether lambs. The stock—which, with the exception of one or two lots, belonged to Mr. John Lind, Carnwath—was in excellent condition. Mr. Buist, Edinburgh, officiated as auctioneer. Cross lambs maintained with difficulty the currencies of Lanark Lamb Market; while black ewe and wether lambs would be back from 1s. to 2s. The stiffness in the present case is attributed to the late harvest and the prevalence of foot-and-mouth disease in the Carnwath district.

SIR WILLIAM THROCKMORTON'S SOUTHDOWNS.—At the sale of Southdown sheep and Berkshire pigs, the property of Sir N. W. Throckmorton, of Buckland, the business opened with ewes, when the following prices were given: Five full-mouthed ewes, £16 5s.; Baly; five, £20, Colman; five, £18 2s. 6d., Lord Sondes; five, £19 7s. 6d., Colman; ten, £40, Lord Sondes; ten, £37 10s.; Baly; five 2-tooth ewes, £20, Druce; five, £16 5s.; Biel; five, £21 5s., Lord Sondes; five, £19 7s. 6d., Lord Radnor; ten, £40, Baly; ten, £31 5s., Biel—total £299 7s. 6d., at an average for ewes 74s. 10d. Southdown rams: Six-tooth ram, hired at £21, Heasman; hired at £15 15s., Lord Sondes; hired at £73 10s., Colman; 4-tooth ram, sold at £31 10s., Heasman; hired at £10 10s., Fox; sold at £17 17s., Fox; hired at £17 17s., Lord Sondes; sold at £10 10s., Heasman; shearing ram, sold at £10 10s., Fox; sold at £11 11s., Lord Bathurst; sold at £34 13s., Fox; sold at £28 7s., Lord Bathurst; hired at £8 8s., Emery; sold at £7 7s., Biel; sold at £11 11s., Lord Bathurst; sold at £7 17s. 6d., Biel—total of rams £318 13s. 6d., an average of rams let £24 6s. 6d., and sold £17 3s. 4d. The highest price paid for pigs was £11 0s. 6d., given for a young boar by Mr. Campbell; and the prices for pigs ranged from £1 5s. to £7 each. Mr. Strafford officiated.

MR. CHARLES BYRD'S SHROPSHIRE SALE AT LITTYWOOD.—The weather proved extremely unfavourable and drove the company to shelter during the latter part of the proceedings, when low prices ruled. Mr. A. Tanner secured Hampton Hero for the season at 70 guineas. Fifty guineas for the hire of number 5 was paid by Mr. Mansell, who took No. 6 also at 10 guineas. Mr. E. Crane bought an aged ram, used last year by Mr. Coxon at 14 guineas, and Mr. Coxon gave 17 for No. 7 shearing. No. 8 fell to Mr. Kinghorn, for Rev. G. Inge, at 31 guineas; and the others ranged from 18 down to 5 guineas, averaging nearly 14 guineas each. The ewes were only moderate, and ranged from 59s. to 72s. averaging about 66s. Mr. Preece conducted the sale.

MR. BRADBURN'S SHROPSHIRE.—At Pipe Place, Lichfield, by Mr. Preece, on Friday, the rams averaged 12 guineas each. The first prize yearling ewes at Cardiff realised 19½ guineas, and those highly commended at the same show were sold at 11½ guineas per head. The 80 other ewes averaged 85s. each. Every lot was disposed

THE ULCEBY GRANGE RAMS.—The annual show and sale of the rams bred by Mr. Turner, of Ulceby Grange, took place on Monday. Mr. Turner's flocks this year, like those of his neighbours, have not escaped the devastating visitation of the foot-and-mouth disease, and as a consequence the 56 shearlings shown were not so big and forward as usual. The average was £11, but some of the rams realised high figures. Patent was bought by Mr. Nicholson, of Sturton Grange, Leeds, for £34. The same breeder gave £36 for President. Pilot was knocked down to Lord Charlemont for £20; Lot 13 was sold for £17, Mr. Turner of Harpswell being the purchaser, who took also Planet for £16. Lot 21 was bought by Mr. Raven, of Limber, for £17. Several sheep were sold at sums varying from £10 to £16.

THE HUTTOFT RAMS.—Mr. St. P. Robinson's annual ram show was held upon his new premises. The whole lot of 59 were let at the average price of £13 17s. 1d. One sheep was let for £57, and several others at from £20 to £26 each. The total amount for which the sheep were let was £817 10s.

SALE OF MR. HENRY HIPKIN'S WESTDEAN FLOCK.—This sale was conducted on Tuesday by Messrs. Wyatt and Son, who brought to the hammer 420 ewes, and 10 rams, the lambs being bought in. Unfortunately the flock has the foot-and-mouth disease; but all purchases will be kept till they have recovered, and this did not materially affect the sale. The yearling ewes averaged about 62s. each, while the two-year-olds sold for quite three or four shillings in advance of this, and the three-year-olds, and full-mouthed at about 64s. The highest price for rams was 8½ gs.

SALE OF THE STAMFORD LEICESTER RAMS.—On Wednesday an auction of Leicester rams was held at Stamford, near Alnwick, the property of Mr. J. C. Bolam, late of Low Trewitt. As the sale advanced the prices grew better, the result being £747 15s. for 69 shearling rams, or an average of £10 16s. 8½d. At the close, 85 Leicester fat Dimonts sold from 56s. to 60s.; 50 Cheviot wethers sold from 46s. to 49s.; 50 fat ewes brought from 56s. to 59s.

THE ASHBY-DE-LA-LAUNDE LINCOLNS.—Messrs. Law offered and let 60 shearling rams, 20 two-shear sheep, 13 three-shear, and 7 four-shear, being 100 sheep, which were sold for £1,441 2s. 6d., producing an average of £14 8s. 2½d. Mr. R. Howard, of Temple Bruer, gave 32 gs. for Lot 10; Lot 19 let for 23 gs.; Lot 44 for 21 gs.; and Lot 50 was let to Mr. M. Smith, of Branton Fen, for 35 gs. Mr. Lister, of Coleby, hired a shearing for 40 gs. Of the two-shear sheep Mr. T. Cartwright, of Dunstan, took Lot 68 for 55 gs., and Mr. Needham, of Huttoft, Lot 75 for 28 gs. Of the three-shear sheep Mr. R. Dudding, of Pantton, took Lot 82; Mr. J. Kirkham, of Audleby, hired Lot 84.

PETERBOROUGH RAM FAIR.—On Saturday week the demand for Lincoln sheep was greater than the supply. The best lot of shearlings were shown by Mr. Casswell, of Pointon, and fifty realised over £23 per head. The highest price made in the fair was 60 gs. for Lot No. 20, penned by Mr. Casswell, and purchased for Mr. Marshall, of Barnston. Lot No. 10 was bought by Mr. Clark, of Scopwick, for 45 guineas. Shearlings were shown by Mr. J. R. Kirkham, of Audleby Villa, Caistor; Mr. Dean of Dowsby; Mr. J. H. Casswell of Loughton; Mr. Robert Wright of Nocton Heath, and Mr. John Pears, Mere, Lincoln. The average of the fair was computed to be £14 3s. 9d., and buyers for the colonial and foreign markets were numerous.

MR. WATER'S SOUTHDOWNS.—By Messrs. Southerden and Morris, the well-known auctioneers of Hailsham and Lewes, at Motcombe, Eastbourne.—The full-mouthed ewes numbered 150, and varied in price from £8 8s. to £3, the highest price being given for Mr. W. Taylor, of Thorn House. The average price for this class was about £3 15s. per head. For the six-tooth the highest price given was £5 per head, and the lowest £3 6s. Mr. Rigden, of Hove, became the purchaser of the highest-priced lot, giving £25 for a pen of five. Of the four-tooth 140 of this class were offered, Mr. Rigden, of Hove, taking five at £6 6s. per head, the prices decreasing to £3 2s. each. For the two-tooth, numbering 190, the highest price attained throughout the day was reached when Lot 47 appeared, Mr. W. Taylor being the purchaser at 8½ guineas. This pen was the flower of the flock. The lowest price given in this class was 63s. each. For rams the highest price was 21 guineas. Another ram was knocked down for 19 guineas, and the other twelve sold averaged about 8 guineas a-piece.

THE TATHWELL RAMS.—These were a lot of promising shearlings, and the prices realised were satisfactory, the average of the nineteen sold being £8 9s. 8d. Mr. Cox gave 14 gs., the highest price.

THE RAMS OF MR. CHAS. CLARKE, OF SCOPWICK, were sold by auction by Mr. Briggs. The bidding was spirited, and good prices were made, the flock of Mr. Clarke being well known and having occupied a high position for many years.

SALE OF THE FLADBURY HERD OF SHORTHORNS.—This large herd has been kept principally for dairy purposes, and although well-bred animals and good bulls were bought, principally of the Knightley blood, there were no pretensions to fancy prices. Nevertheless, the stock sold well, in consequence of Mr. Webb giving up the farm, and there was plenty of competition for the cows, which mostly had young calves with them, and were reduced in condition. They ranged from 30 gs. to 40 gs. each, and were bought mostly to remain in Worcestershire and Herefordshire. A few were purchased to go into Sussex. Mr. Webb had won some prizes in the dairy classes at the county shows, and a pair of prize cows at Stourbridge went to Mr. B. H. Allen for 74 gs. Bella, a well-known local prize heifer, a doubtful breeder, made 62 gs. The calves sold remarkably well, a bull-calf fetching 35 gs., and others 20 gs. to 30 gs. each, several of them being of short pedigree. The sum total of the sale was over 2,000 gs., and the 79 head averaged £27 5s.

BORDER UNION SALE AT KELSO.—Nearly 2,000 sheep, the majority of which belonged to the Border Leicesters, were submitted at four rings erected in various parts of the park. Prices were not so good in the forenoon as in the afternoon. The quality of the rams submitted for competition was very superior—much finer than ever previously observed. A rumour got afloat early in the forenoon that the Irish ports were closed against cattle and sheep, and this had the effect of making those that had commissions for Ireland, and also buyers from that country, rather timorous. The Mertoun flock (Lord Polwarth's), as in former years, again took first place in the sales, the enormous price of £170 being got for one Leicester ram, and which was purchased by the Marquis of Tweeddale. Mr. Smith, Whittingham Mains, purchased the next at £140; the Duke of Buccleuch the next at £100; Mr. Laing, Wark, the next at £85; Mr. Bell, Linton, the next at £39; and Mr. Simson, Blainslie, the next at £37. Miss Stark's best ram was bought for £80. Mr. Hope, Fenton Barns, sold his highest at £63.

JEVINGTON.—Mrs. W. M. Filder being about to leave the farm, the flock, above 1,200 Southdowns, was brought to the hammer last Thursday, by Messrs. Southerden and Morris, of Lewes and Hailsham. 220 full-mouthed ewes were offered, three guineas being the highest price given, and fifty-one shillings the lowest. The total for the 220 amounted to £608 17s. 6d. Six-tooth ewes, 210 animals offered, fetched £633 10s., 60½ shillings each. Four-tooth ewes, by rams bred by Messrs. Emary, of Hurston came next, Mr. Robert Paxton offering £3 for the first five. These ultimately reached seventy-shillings, at which price, the highest of the day, they were bought by Mr. Hoadley. The lowest of these fetched sixty-five shillings, and 180 brought £612 5s., sixty-eight shillings each. The first ram, a full-mouthed, £5 5s.; the second and third were six-tooth, £3 3s. and £3 8s. They were all of the same breed as that first sold. Nos. 4, 5, 6, and 7 went as follows: Four for £9 19s. 6d.; five £6 6s.; six £6 6s.; and seven £7 7s. Besides the sheep there were also sold four pairs of working oxen for the following figures respectively per pair: £53, £44, £50, and £51. Two pairs of runt steers brought £57 per pair.

CASTLE DOUGLAS RAM SALE.—MR. WALLETT'S.—There was a large attendance of purchasers. Quality of rams decidedly superior to last year. Number exposed, 320—124 Yorkshire rams from J. T. Robinson, Sickly Palace, Yorkshire, averaged £7 10s., highest price £15 5s.; 17 from Mr. Shennan, Balig, average £4 16s. 4d., highest, £9 5s. Mr. Corrie, South Park, had 5—average £3 12s. 6d.; 54 from Mr. M'Turk, Crande, Leicestershire, averaged £5 12s. 8d.; highest price, £10 10s.; 60 from Mr. J. B. Irving, averaged £7 5s. 8d.; highest, £13 10s.; 51 from Logan Mains, Stranraer, averaged nearly £6, highest price £13 5s.

THE SUTTON MADDOCK SHROPSHIRE.—Messrs. Lythall and Clarke disposed of thirty-two rams and ninety ewes.

The former ranged 5½ to 40 gs., averaging £13 9s. 6d. The latter from 67s. 6d. to 120s., giving the fair average of 96s. 6d. The principal buyers were the Earl of Ellesmere, Lord Willoughby de Broke, Sir Henry Harnage, Bart., Messrs. W. O. Foster, Nock, Yates, Preece, E. Lythall, Cope, Rostron, and Brewster.

HAMPSHIRE DOWNS.—At the Manor Farm, Corton, on Monday last, the flock included 600 ewes and 600 chilver and wether lambs. Prices for ewes ranged from 73s. to 61s., full-mouthed ewes 71s. to 65s., six-teeth ewes 57s. to 44s., chilver lambs 54s. to 45s., wether lambs 54s. to 44s. Average for full-mouthed ewes £3 6s. 10d., for six-teeth ewes, £3 1s., chilver lambs £2 8s., wether lambs £2 9s. 6d.

SOUTH WILLINGHAM RAM SHOW.—The biddings were somewhat rapid, and showed a great improvement on last year. The average was a trifle over £10.

LINCOLN RAM SALES.—There were fewer than usual, some of the flocks being down with foot-and-mouth disease. Messrs. Richardson and Tateson sold, for Mr. C. Lister, of Coleby, 9 shearlings, which averaged £9 3s. 2d. each; also 6 ram-lambs, which averaged 55s. 6d. each, and 26 wether lambs, the property of Mr. Barratt, Upton, made from 51s. to 53s. each. At the same auction were offered 4 rams for Mr. E. Howard, Nocton, which averaged £7 15s. each. Messrs. Law and Son offered 28 shearlings, the property of Mr. Wright, Nocton. Mr. Ealand gave £28 7s. for one, and Mr. Wass, £24 3s. The whole averaged £10 14s. per head. Messrs. Briggs submitted 13 rams from the flock of Mr. W. F. Marshall, Branton. Mr. T. C. Marshall bought one for 28 guineas, and Mr. Lamb and Mr. Mackinder each one for 21 guineas. Mr. E. Howard, Nocton, gave 26 guineas for a two-shear, and Mr. Marriott 24 guineas for a three-shear. The 13 averaged £17 15s. 4d. per head. Mr. Walker, Dunholme, offered, through Messrs. Briggs, 6 shearlings, which sold at from 5½ to 9 guineas a head.

ENFORD.—The sale of the flock of the late R. K. Kilminster, was held at Enford Farm. The sheep, about 2,500 in number, realised good prices. Full-mouthed ewes averaged as high as 62s. per head, six-teeth 66s., four-teeth 70s., two-teeth 68s. Chilver lambs averaged 45s., and wether lambs 48s. 6d. per head. The total amount of the sale was £7,264 8s. The highest price realised was for a lot of two-tooth ewes, 85s. per head.

SALES OF RAMS IN CORNWALL.—At the Truro cattle market, Mr. John Tremain sold eight Cotswold rams from the stock of Mr. Henwood, Lower St. Columb, which went at from £9 5s. to £14 5s. Mr. Brewer offered a lot of Leicester rams from the stock of Mr. John Mason; a few were sold at from £6 to £7 each. The others were afterwards sold by private contract, at from £9 to £10 each. Those from Mr. W. Whitford's stock, of St. Erme, were all sold, averaging £7 each; from Mr. T. Olver's, Philleigh, a lot of Shropshire Downs, at from £5 to £11, all sold; from Mr. George Mason's, Kenwyn, a lot of 25 Leicester ewes, averaging £3 4s.; and Mr. J. Faul's Leicester rams averaging £6, and 20 ewes £3 3s. Mr. Corfield sold 18 Leicester rams from Mr. Anthony Michell's, Cubert, averaging £5 5s.

SHROPSHIRE AT BRICK HOUSE, STAFFORD.—Mr. C. Timmis' Shropshire sale took place on Tuesday. The owner had determined not to let three of the best, and after these sheep, several were passed through the ring without an offer. About two-thirds of the rams were sold at from 13 gs. to 5½ gs. each. There was a good trade for the ewes all through, the average being about 68s. per head. Messrs. Lythall and Clarke conducted the sale.

MR. MAY'S SHROPSHIRE.—The sale at Elford, on Monday last, was more extensive than usual, in consequence of Mr. May having determined to discontinue ram-breeding. Nearly 400 sheep were included in the catalogue. The forty-two rams ranged from 5 to 22 gs., the ram-lambs from 3 to 13 gs., the ewes from 67s. 6d. to 115s., over 100s. per head being paid for several pens, and the ewe lambs realised from 50s. to 100s. each. Messrs. Lythall and Clarke conducted the sale.

SHROPSHIRE SHEEP.—The autumn sale by Mr. W. G. Preece at Shrewsbury was on Monday and Tuesday last. The catalogue comprised about 250 rams and 1,600 ewes. The rams were, as usual, sold the first day and the ewes the next. The prevalence of the foot-and-mouth disease, and the order of the Privy Council issued on Saturday prohibiting the importation of cattle and sheep from England into Ireland, had

a depressing tendency on the sale, and tended materially to lower prices. Mr. Edward's four rams averaged 9 guineas each. The Rev. C. P. Peters, one ram 7 guineas. Mr. John Evans's nine rams averaged 12 guineas each. Mr. Crane, Shrawardine, 20 rams averaged 13 guineas. Mr. T. Horton's, No. 1, let at 37 guineas, 20 others averaging 10 guineas. Messrs. Fenn and Harding's No. 1 went to Lord Pearhyn at 20 guineas; No. 2 to Mr. J. B. Jones at 35 guineas; No. 8 sold to Mr. Heighway at 21 guineas, the other 13 rams an average of about 12 guineas. The Hon. C. Kenyon's shearlings averaged nearly 12 guineas. Mr. Williams, Dryton, 10 rams, average 9 guineas. Mrs. Wadlow's 9 guineas. Mr. T. Horley's two-shear ram 20 guineas. Lord Chesham's 11 rams ranged from 12 to 32 guineas. Colonel Dyott's, Freeford, No. 1 was sold to Mr. Harding at 15 guineas, No. 4 to Mr. T. Mansell at 25 guineas; eight others averaged 10 guineas. 13 rams from Mr. Bostock, Stafford, averaged 12 guineas. Mr. W. G. Foster, No. 1 to Mr. T. Williams at 23 guineas, No. 2 to Mr. Jarvis at 18 guineas, Nos. 3, 4, 5, 7, and 8 averaged nearly 10 guineas, No. 6 to Mr. Oswald at 12 guineas, No. 9 to Mr. G. T. Forester at 27 guineas. Mr. C. Byrd's, No. 1 went to Mr. Sydney Davies for 22 guineas, No. 2 to Mr. John Pickering at 20 guineas, No. 4 to Lord Raglan at 17 guineas, No. 7 to Mr. G. Groves at 12 guineas. Mr. Thomas Baschurch No. 1 went to Mr. Cartwright at 15 guineas, and 12 others averaged 9 guineas each. Mr. A. Mansell's 12 rams averaged 8 guineas; and Messrs. T. and G. Crane's 12 rams averaged nearly 9 guineas. Over 1,600 ewes were sold. Messrs. Bowen and Jones, 100 ewes, averaged 90s. each; Messrs. Fenn and Harding, 50 ewes, 75s.; Mr. M. Williams, 40, 75s.; Lord Chesham, 100, 92s. 6d.; Mr. W. O. Foster, 30, 80s.; Mr. J. Fowler, 25, 72s. 6d.; Mr. R. Jones, 80, 80s.; Mrs. Frank, 40, 77s. 6d.; Mr. Pickering, 30, 90s.; Mr. G. Horton, 30, 85s.; Mrs. Wadlow, 30, 77s. 6d.; Mr. Brewster, 30, 70s.; Mr. Nevett, 60, 67s. 6d.; Mr. Andrews, 30, 87s. 6d.; Mr. T. Jones, 40, 70s.; Mrs. Smith, 50, 70s.; Mr. J. Preece, 40, 72s. 6d.; Mr. Bridgman, 30, 75s.; Messrs. Crane, Peters, Horton, Forester, Payne, Lawrence, Instone, Morris, S. Jones, Norton, Dayns, Minton, Everall, Myott, John Lee, Butler, and Norris sent altogether about 500 ewes, which averaged over 75s. each. Of Mr. Wyatt's show ewes one pen was sold to Mr. Peake, Ireland, at 120s. each, and the other to Mr. Farmer, at 115s. each. Mr. M. Williams, Dryton, five shorn ewes were sold at 87s. each to Mr. Crewe.

MR. C. N. KEELING'S SHROPSHIRE FLOCK.—This sale took place at the Yew Tree Farm on Friday, under the conduct of Mr. Preece, when capital prices were made. A pen of five shearling ewes were knocked down to Mr. Masfen at 24 guineas each; and the shearling ewes realized in all £853 2s. 6d., the ewe lambs £540 4s. 6d., the shearing rams £723 9s., the two-shear rams (four lots) £123 18s., the ram lambs £570 2s. The highest prices for shearing rams, 40 gs. each, were given by Mr. Randell and Colonel Bridgford, and Lord Strathmore gave 44 gs. for a two-shear. Another pen of shearing ewes made 15 gs. each to Mr. H. Green; a figure also reached by five stock ewes. The flock appears to have been very widely distributed.

THE CADEBY LINCOLNS.—This sale occurred rather later in the season than usual. The highest lots went to Mr. Hesselstine 47 gs., Mr. J. W. Parker 38 gs., Mr. D. G. Briggs 31 gs., Capt. Higgins 21 gs., Mr. Hesselstine 25 gs., Mr. Williams 25 gs., Mr. M. Munday 21 gs., Mr. Iles 22 gs., Mr. Waddingham 25 gs., Mr. Hesselstine 33 gs., Mr. D. G. Briggs 20 gs., Mr. Foster 20 gs., Mr. R. Walker 24 gs., Mr. S. Coats 20 gs., Mr. Waddingham 20½ gs. The average was a very good one.

THE POINTON RAMS.—Mr. T. Trotter, of Lincoln, secured a sheep with size, wool, symmetry, and mutton for £63. Another was sold to Mr. C. Clarke, of Scopwick, for £48 6s. Mr. Fowler, of Barrow, purchased one for £35 14s. Altogether fifty shearlings were sold, very high prices being obtained.

THE WEST WILLOUGHBY RAMS.—Sixty rams from this flock were sold by Mr. Wood. Unlike many other flocks, that of Mr. Rudkin has escaped the foot-and-mouth disease, and the rams shown were, consequently, up to, if not above, the average of former years. The forty-eight shearlings realised 620 gs., or an average of £13 11s. 3d. The twelve two-shears made 154½ gs., being an average of £13 10s. 4½d.

The total amount realised was 774½ gs., or an average, for the sixty sheep, of £13 11s. For No. 11 30½ gs. was reached, at which sum Mr. Lee, of New Zealand, became the purchaser.

THE KINGSTON SOUTHDOWNS.—On Wednesday last Mr. Drawbridge submitted, by direction of the executors of the late Mr. John Hodson, of Kingston, Lewes, the whole of the Southdown flock of 1,659 ewes and ewe lambs, and 14 rams. Full mouthed ewes: Of which there were 32 lots of 10 and one of 17; the largest purchaser was Mr. Pearson, of Erringham, who secured no less than 19 lots at 59s., 58s., 57s., 56s., and 55s. Most of his purchases were at 57s. Two-tooth ewes were very widely distributed. There were four lots of five, 30 lots of 10, and one lot of 11. Mr. Cane, Berwick, bought at 80s. Mr. Carew Gibson three lots at 78s., and one at 75s. Mr. R. Verrall at 72s. and 63s. Mr. C. Water at 66s. (two lots) and 64s. Mr. Kent at 63s. Mr. Pearson at 63s. (two lots). Mr. Turner, Chyngton, at 69s. Messrs. Brown at 63s. (three lots). Mr. Ditch at 63s. (two lots) and 55s. Mr. Blaker at 96s. (two lots), 66s., and 63s. Mr. Botting, Westmeston, at 63s. and 60s. (three lots). Mr. Ellis at 69s. and 63s. Mr. Keene at 66s. Mr. Nicholson at 63s. (two lots). Mr. Lade at 65s. Mr. Hare at 66s., and Mr. Dumbrell at 63s. Four-tooth ewes: Of this class there were four lots of five, 27 lots of 10, and one lot of 15. Mr. Carew Gibson gave the highest price, 96s., and also bought at 73s. and 72s. (two lots). Six-tooth ewes: There were of this age four lots of five and 26 lots of 10. Mr. Cane, Berwick, gave the highest price, 84s. Stock ewe lambs: There were 15 lots of 10, nine of 20, and one of 24. Mr. Cane gave 50s., 44s., 42s. (two lots), and 40s. Mr. Blaker bought at 50s. Mr. Hare at 46s. and 40s. (three lots). Messrs. Brown gave 42s., 40s. and 38s. Mr. Ellis 42s. Captain Hillman 42s. Mr. Botting 34s. Mr. Homewood 38s. and 36s. Mr. Elliott, Beeding Court, 36s., 35s., 34s., and 33s. (two lots), and Mr. Drawbridge 32s. and 28s. Rams: Full-mouth, Mr. Ellis, £3 10s.; six-tooth, £14 14s. Mr. T. Brown, £6 10s. Mr. Matthews, £7 10s. Mr. T. Brown, £6 10s. 6d. Four-tooth, Mr. G. Kent, £5 5s. Mr. G. Hodson, £8 8s. Mr. Tribe, £6 6s. Two-tooth, Mr. T. Brown, £3 10s. Mr. Patteson, £3 13s. 6d. Mr. Brook, £3 3s. Mr. Poole, £3. Mr. Patteson, £3. Mr. Isted, £2 7s. 6d.

THE BASINGBOURNE RAMS.—Mr. Clarke Hales, Manor Farm, offered his twenty-five rams for sale by auction at the annual fair at Northampton for the fifteenth time. The highest price realised was 22 gs., several made over £20, and the whole averaged £16 each. Some were for Australia.

NORTHAMPTON SALES.—Mr. W. J. Peirce sold twenty-four Cotswold shearling rams, the property of Mr. John Wheeler, Long Compton, at an average of £10 7s. 9½d. each. Mr. Peirce also sold twenty-three long-wooled shearling rams, the property of Mr. W. Wiggins, of Draughton, at an average of £7 0s. 8d. per sheep. Mr. John Shaw disposed of four lots of rams of as many distinct breeds—Oxford Down shearling rams, Shropshire Downs, Leicester and Lincoln rams. Twenty-five shearling rams from the Grendon flock, the property of Mr. James Longland, made an average of £11 6s. 6d., the highest price being £23 2s. 14 Shropshire Down rams, the property of Mr. R. E. Oliver, Sholebroke, averaged £9 2s., the highest price being £13 13s. Eight shearling Leicester rams, the property of Mr. F. Spencer, realised an average of £6 6s. Messrs. Acock and Hanks, of Cold Aston and Stow-on-the-Wold, disposed of two lots of Cotswold rams. The first lot consisted of 16 shearhogs, the property of Mr. W. Lane, Broadfield Farm, Northleach, at an average of £14 12s.; the second lot consisted of 12 shearhogs, the property of Mr. John Garne, Lechlade, at an average of £10 13s. 3d. Messrs. Lawrence and Carter, of Bourne, sold 10 long-wooled shearling rams, the property of Mr. Tom Casswell, of Pointon, at an average of £11 11s.; 15 long-wooled rams for Mr. Rudkin averaged £7 17s. 6d. Mr. Aigernon Hack sold 32 rams at an average of £11 11s. 20 Lincoln shearling rams, bred by Mrs. Millington, of Ashgrove Farm, realised an average of £7 1s. 6d.

SALE OF LORD FALMOUTH'S STOCK AT TREGOTHNAN.—There was an attendance of between three hundred and four hundred farmers and butchers. Before coming to the sheep, five hundred fleeces of washed wool were put up for sale, the produce of about two hundred hogs and three hundred ewes. The wool was started at 1s. 6d. per lb., but it was shortly knocked down at 1s. 7½d., to Messrs. Nan-

carrow and Son. The sheep opened with the ewes, of which there were twenty-three pens of five each. The first six pens were young ones, and the rest aged. The first lot was knocked down at 8s., each to Mr. Richard Rosewarne, Nanspuser. Lot 4 fetched 88s. each, Capt. Smith being the buyer. The remaining pens averaged about 76s. a head, the highest being 81s., and the lowest 57s. The next lot were thirty ewe-lambs, which sold at from £2 17s. to £2 a head. Thirty wether-lambs fetched from 50s. to £2 a head, and thirty fat wethers fetched from £4 4s. to £3 2s. each. The first ram—a yearling, which gained first prize at the Royal Cornwall Agricultural Show at Bodmin, by Mr. Yates' No. 6—was started at £5, but rapidly went up to £9 5s., at which price it was knocked down to Mr. Carew. Lot 12 fetched a similar price; and lot 6, by Mr. Yates' No. 2, fetched £9, as did also lot 16. There were altogether sixteen entries, the average price being about £7 10s. each. Some North Devon cows were afterwards sold, some with calf by the side. Treasure, bred by Mr. Tremayne, of Heligan, fetched £21; and the heifer calf, £10 15s. May Day was sold to Mr. Thomson for £27 5s.; and Pearl to Mr. John Magor for £21 5s. Trickmadame was bought by Mr. Manning, of Exeter, for £25 5s. Mr. Edward Simmons bought Eyebright for £22 10s. Elaine was started at £13, and the biddings ran up to £35, at which price it was knocked down to Mr. Manning. One or two others fetched about 20 gs. each. A more important lot were the bulls. Cinnamon—who gained the first prize at the Royal Cornwall Agricultural Association Show at Truro last year, the first at the Royal Agricultural Show, Wolverhampton, a month afterwards, in the yearling bull class, the second prize at Bodmin, and the third at the Royal Agricultural Show at Cardiff this year—was now brought to the hammer, but he was sold at the low price of £50 to Mr. John Thomas, Redruth. Jolly Boy, which gained a fourth prize at Bodmin, was bought by Mr. Manning for £28 10s. Gipsy King, a third prize at Bodmin, and highly commended at the Royal Agricultural Show at Cardiff, was sold to Mr. Cleave, Wadebridge, for £35. A yearling bull, highly commended at Bodmin, was sold for £20. Four or five other yearling bulls were also sold at prices ranging from £16 to £13, a number of heifers, some Jersey and cross-bred cattle, and a few pigs were also sold.

SCOTCH SHEEP SALES.

CHEVIOT RAMS.—The biennial sale of rams bred by Mr. Carruthers, Kirkhill, and Mr. Johnstone, Capplegill, took place at Beattock. Both lots were superior in quality and condition to those at the previous sale in 1870. The bidding for the best animals was brisk, and prices generally were deemed satisfactory. The total proceeds of the sale of Kirkhill rams was £399 15s., and the average of 47, £8 10s. 1d. Mr. Johnstone's rams, 75 in all, were next offered. The total proceeds of the Capplegill rams was £652 12s., the average of the 75 being £8 14s.; and the proceeds of both sales, £1,052 7s.

DUMFRIES.—The annual sale of long-woolled rams, bred by Mr. John Bell Irving, took place at Stewart's Auction Mart. Sixty shearing rams were offered; the prices high, ranging from £5 5s. to £30, the latter sum being obtained for the ram which won the first prize as a shearing at the Kelso show, which was purchased for Mr. Ingoldby, Yorkshire. No. 17 sold at £17 to Mr. Jardine, of Castle Milk, M.P.; No. 22 was purchased for the Duke of Buccleuch, at £14 15s.; and Nos. 32 and 42 were also bought for his Grace, at £16 and £13 10s. The average of the sixty was £8 6s. 6d., and the total proceeds £399 10s. A lot of Yorkshire rams, belonging to Mr. C. Thompson, Aysgarth, were then offered, and brought prices ranging from £2 12s. 6d. to £12. No. 10 sold at £12 to Mr. Hope, Margreig; and No. 30 also brought £12, the purchaser being Mr. Paterson Wood, of Kirkmichael. The average was £6 9s., and the proceeds £396 2s. 6d.

HALF-BRED EWES AT SWAN'S MART, ST. BOSWELLS.—There were in all 4,300 half and three-parts bred ewes, 65 Leicester ewes, 1,200 three-quarters-bred gimmers, 22 Leicester gimmers, 79 Cheviot gimmers, 650 Cheviot ewes, 1,150 feeding sheep, and 3,000 lambs—Cheviots, half and three-parts bred and greyfaced. The sale began at three o'clock with half and three-parts bred ewes, which sold at about the prices of last year, and in some exceptional cases 1s. above the prices of the previous year. Leicester ewes

were about the average of last year. Gimmers were quite the turn above the prices of the previous year, and in some instances, according to quality, were from 5s. to 12s. more a head. Mr. Davidson, Melrose, also held a great sale of draft ewes and lambs at St. Boswells. The number brought forward was large. In the beginning of the sale prices were rather languid, but during the course of the day sales improved. Good lambs were sold at a slight reduction from previous markets; but secondary were considerably below. With regards to draft ewes, they, in almost every case, were about the same prices as the previous year, while in some of the best lots they were considered a little higher.

LOTHIAN RAM SOCIETY—ANNUAL SHOW AND SALE.—Despite the weather, the attendance of purchasers was numerous, and compared favourably with previous sales. The sale on this occasion was confined to Cheviots and black-faced tups, neither half-breds, Southdowns, nor Shropshires being represented, as was the case last year. The greater proportion of the pens were filled with black-faced tups, but it was for Cheviots that there was the most demand. At the commencement the sale was somewhat dull, but about one o'clock, when the Cheviots were introduced, purchasers rallied, and a number of high prices were obtained. The next highest figure to that got for the prize Cheviot was for a tup of the same breed belonging to Mr. Welsh, Eriestane. Its price was £42. Mr. Welsh bought a Cheviot at 31 gs. from Mr. Johnston, Archbank. The highest average for Cheviots—£12 15s. 3d.—was got for the lot belonging to Mr. Moffatt, Kinleith; last year the highest average was £9 9s. The highest average for black-faced this year was £9 14s., obtained by Mr. Archibald, Overshiels: on the previous occasion it was £12.

PEEBLES RAM SALE.—Mr. Cairns held his annual ram sale at Peebles on Tuesday, when there were brought forward 90 Leicesters and 80 Cheviots. There was a very large attendance of purchasers from all quarters; the demand was good, and prices ruled very high. Walston Cheviot lot: highest price, £3; lowest, £2; average, £2 10s. Cheviots from Mr. Gibson, Bold: highest, £13; lowest, £6; average, £10. The Woodhouse lot averaged £3. 50 Leicesters from Mr. Mills, Horsburgh Castle: highest, £17 10s.; lowest, £7; average £10 10s. Mr. Gracie, Haprew (Leicesters): highest, £6; lowest, £4 5s.; average, £5 5s. Lot from Mr. Wilson, Darnhall, averaged £6. Leicesters from Mr. Ainslie, Soonhope: highest, £8; lowest, £5 10s.; average, £7. Cheviots from Mr. Lindsay, Whitehope: highest, £2 12s.; lowest, £2; average, £2 5s. Lot of Cheviots from Caberston: highest, £9 10s.; lowest, £2 10s.; average, £6. Lot from Ladyurd: highest, £2 10s.; lowest, £2; average, £2 5s. Lot of black-faced from Mr. Tait, Lee: highest, £3 5s.; lowest, £2 10s.; average, £2 15s. A lot of Cheviots from Mr. Fenderheith, Nether Horsburgh, averaged £2 2s.; and black-faced tups from Mr. Dods, Dalwick Mill, averaged £2. At Mr. Cairns' weekly sale on the same day there were sold 290 fat sheep, 4 fat cattle, 1 calf, 1 pig, and 500 store lambs. The attendance of buyers was large, and the demand was good at previous prices.

PERTH.—At the annual sale and competition of Leicester and black-faced rams, in connection with the live-stock sales conducted by Messrs. McDonald and Fraser, Perth, in the former Mr. McDonald officiated as auctioneer, in the latter Mr. Fraser. Messrs. McDonald and Fraser offered a number of prizes for Leicester and black-faced rams, for which there was a good competition, taking into account the district in which it was held. For Leicester rams, Mr. Ferguson, Kinlochtry, gained the silver cup with a shearing ram. In black-faced tups there was a very fair show. Mr. Guild, Monzie, obtained first and second prizes. The judges for Leicesters were—Messrs. Taylor, Orchard, Alloa; G. Buist, Ormiston, Newburgh; Smith, Balmain, Fettercairn. For black-faced—Messrs. Cameron, Garrows; John Forbes, Fossaway; and Whyte, Spott Kirriemuir. At the sale, as indicated already, there were two auction marts. The best class of rams sold well, and prices for these were up from £1 10s. to £2 a head, as compared with those obtained at the same sale last year. There was a little difference in the value of second-class lots. For the prize Leicester ram £40 was paid by Mr. Geekie, Baldowie. The second was also bought by that gentleman for £13, and the third by Mr. Robertson, Henhill, for £15 10s. The first-prize black-faced ram was sold to Mr. Anderson, Findowie, for £9;

the second was bought by Mr. Ralston, Glamis, at £8 10s. Altogether the sale was a successful one, the total proceeds amounting to upwards of £4,000.

HAWICK SHEEP FAIR was largely attended. On the first day the half-bred, three-parts-bred, and blackfaced Leicester crosses were brought forward, and the sale started with the three-parts-bred. At the opening of the sale it was apparent that the effect produced by the check given to the upward tendency of prices at Melrose Fair was not dissipated, and purchasers were not inclined to give the extreme rates going a fortnight ago; while the circumstance of murrain being so prevalent deterred in a great measure dealers from going into large transactions. The sale during the forenoon was rather languid, but a revival took place in the afternoon, and prices advanced considerably, half-bred ewe lambs for breeding purposes being in great request. Although three-parts-bred lambs were down from 2s. to 4s. from the extreme prices with which the season began, still the prices obtained were in most cases from 2s. to 6s., and even the length of 8s. 6d. in advance upon those of the same date last year. Three-parts-bred lambs sold from 36s. to 40s. 6d., seconds 27s. to 34s. 9d., top half-bred ewe lambs 30s. to 42s. 6d. Top half-bred wether lambs 30s. to 35s. 6d., seconds 25s. to 29s., blackfaced Leicester crosses 21s. to 26s. On the second day the Cheviot lambs were exposed, the sale starting with the Thorlieshope lot of Cheviot wethers, which sold at 27s. 6d. The other lots of Cheviot wethers, which sold fetched from 18s. to 30s., the latter price being obtained for the Sinton Parkhead lot. The Cheviot ewe lambs realised prices far beyond anything known, the tops selling from 28s. to 36s. 6d., and the seconds from 18s. to 32s., the highest price being given for the Overkirkhope lot. Glegelt seconds sold at 32s., Thorlieshope 28s. 3d., Hartwoodmyres 31s. 6d., and others from 18s. to 27s. A few lots of blackfaced Cheviot crosses sold from 15s. 6d. to 19s. 6d. A lot of wethers brought 63s. 6d., and a lot of Cheviot gimmers 41s. There were sold on the two days 4,033 three-parts-bred lambs, 12,108 half-bred lambs, 7,219 Cheviot wether lambs, 6,270 Cheviot ewe lambs, 1,643 blackfaced crosses, and 177 sheep—in all 31,450 head. The proceeds would approach £50,000. Messrs. Oliver and Son were the auctioneers.

SALE OF THE CLYDESDALE STALLION, PRINCE OF WALES.—Mr. Riddell has sold this horse to an Australian gentleman, the price being stated at £1,500; the highest price ever given for a Clydesdale. The Prince of Wales has not been purchased for the purpose of exportation to the colonies, but with the intention of being retained in Scotland, the purchaser having presented the horse to his brother, a well-known agriculturist in the West of Scotland, who is one of the most successful breeders and exhibitors of Clydesdale horses. The Prince of Wales was bred by Mr. J. Fleming, of Knockdon, out of a famous mare, Darling. The stock of the Prince of Wales have this season been most successful as prize-takers in the counties of Dumbarton, Ayr, Renfrew, and Lanark. They were exhibited in thirty-nine classes, and were awarded 32 first prizes, 11 seconds, 3 thirds, 4 fourths, and 4 commendations—in all, 54 honours. Prince of Wales was placed first at the recent show of the Highland Society at Kelso.—*North British Agriculturist*.

THE REAPER TRIALS AT BRAMPTON.—The judges were Mr. McKinnell, of Dumfries, Mr. Dods, Alnwick, Hexham, and Mr. Little, of Fauld, Longtown. 43 machines were entered for competition. These were divided into three classes, but the main interest centred in the self-delivery reapers. The judges had selected five of the machines for a further and more extended trial. Towards the conclusion it was evident that the first prize lay between the "International" reaper of Messrs. Howard, of Bedford, and the American machine invented by Messrs. Kirby, of Auburn, New York State. The final test was cutting a tangled and twisted crop, which the Howard "International" machine accomplished without difficulty, but the American Kirby choked up. The first prize was therefore awarded to Messrs. J. and F. Howard, Bedford, and the second to the Kirby machine. Messrs. Brigham, of Berwick-on-Tweed, were highly commended, and Mr. Bickerton, also of Berwick-on-Tweed, commended.

"PURE" SHORTHORNS.

SIR,—Whether a Shorthorn is or is not the more valuable for being what is now called "pure" is a matter of opinion, and I have no wish to intrude mine. But whether a Shorthorn is or is not "pure" Bates or Booth blood is a matter of fact, and others besides the remarkable correspondent of *The Times*, who signs himself "S. B. Thakur," think accuracy in stating facts an important object for public speakers and writers to keep in view. Accordingly I ask to be allowed to correct a mis-statement, as I believe, which appears in two reports of Lord Dunmore's astonishing sale—your own and a contemporary's. Your report says lot 40, Oxford Duchess, is "the purest Oxford in England," and *The Field* states the heifer to be "without a stain in her Bates pedigree." Taking the last statement first. Her grandam is by Sixth Duke of Thorndale, who was by Third Duke of Thorndale, who was by Grand Turk, who was by a son of the late Mr. Richard Booth's Young Rachel. This certainly amounts to "a stain" of Booth in a Bates' pedigree. Then, as to your own correspondent's assertion. There is, or was very recently, a cow in the Duke of Devonshire's noble Bates' herd called Grand Duchess of Oxford the Sixth, in whose pedigree not even such a remote cross as I have pointed out can be found. She therefore is entitled to claim the description of "the purest Oxford in England." "A trifle" you may say; but nothing is trifling which helps to establish truth. It may interest some of your readers to point out that the same Third Duke of Thorndale mentioned above begat Lady Oxford Fifth, the prima donna once at Havering Park, and now at Holkar, whose sons at Holkar, at Towneley, at Dunmore, and in other herds have shown themselves, in spite of "the stain in their Bates' pedigree," to be the most stylish getters of the day. People have a right to their own fancies; but all must submit to the one fact. SUB-INSPECTOR.

SIGNS OF THE TIMES.—The Bureau of Agriculture, Yokohama, has just given, through its representatives now in England, a permanent order for *The Mark Lane Express* and *The Farmers' Magazine* to be sent out to Japan.

THE FOOD QUESTION AND TENANT-RIGHT.—At a meeting in Leeds, the Mayor in the chair, the following resolutions were proposed and carried unanimously in a very large meeting: "That, in the opinion of this meeting, the unjust and unnecessary restrictions imposed by the Government upon the importation of healthy foreign cattle is one of the chief causes of the high price of meat, which restrictions very considerably benefit the landowners and farmers, and press heavily on the industrial classes of this country—and "That in the opinion of this meeting it is the duty of the Government to provide by legislation sufficient protection to the tenant-farmers of this country for all investments made by them out of their own capital, with the view of increasing the supply of food for the people; and also to introduce and promote measures for securing the proper cultivation of waste lands and the abolition of the obnoxious Game-laws." Mr. Leathley, in speaking to the second resolution, said they must expect no help from the landlords in obtaining better security for the farmer's capital.

FOOT-AND-MOUTH DISEASE AMONGST HOUNDS.—Some of Lord Radnor's whelps have had the disease. In one suffering from it, the mouth is a mass of sores, and the belly and inside the thighs covered with boils. The feet peel in some cases; the huntsman in all his long experience never saw anything of the kind until this summer. It has only attacked one litter. I attributed it to the bitch, when suckling, foraging at night, and getting hold of a sheep's carcase which was affected, and thus poisoning her milk.

THE SHORTHORN PEDIGREE CASE.

[The following has been forwarded to us by Mr. Harward, acting on the part of the Committee, for publication.]

REPORT AS TO A HEIFER BELONGING TO MR. ATHERTON, CALLED WILD FLOWER OXFORD 2ND.

Mr. Thomas Atherton, of Chapel House, Speke, near Liverpool, was one of the judges of the Northern Counties Agricultural Society's Show held in the month of September, 1870. At that show two heifers were exhibited, one of which got by Belvidere, dam Princess Helena, gained the first prize, and the other named The Blanche Rose, got by General Napier, dam Blanche Kate, gained the second prize; and immediately after the show Mr. Atherton bought these two heifers. The latter, The Blanche Rose, was exhibited by Mr. W. Ashburner, and had been bought by him from Mr. Cheney, by whom she was bred. Mr. Atherton's purchase of The Blanche Rose from Mr. Ashburner was by way of exchange for a heifer which was valued by Mr. Ashburner at 60 guineas, and The Blanche Rose may therefore fairly be assumed to have been of at least that value. Mr. Atherton had no certificate of pedigree with this heifer. It was taken to his farm about the 19th of September, 1870. On the 14th November, 1870, Mr. Atherton sold to Mr. R. P. Davies a heifer which he represented as being of the Wild Eyes tribe, and with which he gave a written certificate of pedigree, as follows: "Wild Flower Oxford 2nd, roan, calved 6th February, 1870; got by 13th Duke of Oxford (21604), dam Wild Flower Duchess 2nd by Lord Oxford 2nd (20215), g. dam Wild Flower 2nd by General Canrobert (12926)." This heifer remained in the possession of Mr. R. P. Davies until April 1872, when it was sold by him (with the pedigree which Mr. Atherton had given) to the above-mentioned Mr. Ashburner, the same gentleman who in September, 1870, sold The Blanche Rose to Mr. Atherton. When the heifer arrived at Mr. Ashburner's house, he recognised it as The Blanche Rose which he had himself sold to Mr. Atherton in September, 1870. His recognition being confirmed by his wife, his brother, and a friend, he refused to complete his purchase. Mr. R. P. Davies' agent and Mr. Ashburner wrote to Mr. Atherton for further information on this matter, and received no answer. They then called upon him personally, when he expressed his readiness to swear that the pedigree he had given with The Wild Eyes heifer was true, and that he had bred both that heifer and her dam; but, after some conversation, he took back the heifer in dispute, and another which he had sold to Mr. Davies, and he gave other cattle in exchange for them. These facts became known to various Shorthorn breeders, and they thought that it was not right that the matter should rest without further investigation, and a meeting of the principal Shorthorn breeders was called to consider the case. Before the meeting was held, Mr. Cheney's agent, who had charge of Mr. Cheney's herd, and bred The Blanche Rose, went to Mr. Atherton's farm at Speke to see the heifer in dispute. This gentleman saw Mr. Atherton, and was shown his stock, and, on asking to see the pedigree of the heifer called Wild Flower Oxford 2nd, he was taken by Mr. Atherton into the house, and shown the pedigree in Mr. Atherton's herd-book, which pedigree corresponded with that above set forth. This gentleman then asked the price of the heifer, and Mr. Atherton named 160 guineas, saying that he (Mr. Atherton) would vouch for her pedigree. The name of Mr. William Ashburner was then mentioned to Mr. Atherton, and at first he maintained that, though Mr. Ashburner had shown some nice-looking things at a show, he had had no

Blanches; but, when pressed, he admitted that he had himself bought a Blanche from him, and when asked where that Blanche was, he replied, "I have not got her now. A man bought her, and I think she went to Southampton or somewhere or other." The meeting was duly held on the 27th day of July, 1872, and the above facts having been stated, Mr. Cheney's agent assured the meeting that the heifer which Mr. Atherton described as Wild Flower Oxford 2nd was the Blanche Rose which he himself bred. The matter having been considered, the meeting resolved that further investigation should be made, and they appointed a Committee for this purpose. The Committee met and appointed Mr. Harward to act as Honorary Secretary, and authorized him to go to Liverpool to see Mr. Atherton on the subject. He did so; but not being able to see Mr. Atherton, he left for him a letter, of which the following is a copy:

Winterfold, Kidderminster, 27th July, 1872.

SIR,—Information was given, about a fortnight ago, to some leading Shorthorn breeders that a short time since you sold to a Mr. Davies or his agent a heifer which you represented to be a Wild Eyes, and that subsequently you repeated this statement to other Shorthorn breeders, and added that the heifer was bred by you. At the same time, information was given to the same gentlemen that the heifer you thus represented to be a Wild Eyes was not a Wild Eyes but a Blanche, and that the animal was not bred by you. These facts having been laid before the Earl of Dunmore, Lord Skelmersdale, Lord Pearllyn, and Colonel Kingscote, it appeared to them that this state of facts affected not merely the particular individual who dealt with you, but all persons interested in the breed of Shorthorns, and they thought that without reference to the transactions which had taken place between you and the purchaser after the above sale, and to the effect of those transactions as between yourself and the purchaser, the matter required the most careful consideration in the interest of the public, and they accordingly convened a meeting of Shorthorn breeders, which was numerously attended; and a Committee, comprising the noblemen and gentlemen by whom the meeting was convened, was formed, to inquire carefully into the merits of the case, and to consider whether any and what further proceedings should be taken in reference to it. This Committee held a meeting in London, and instructed me to bring these facts under your notice, and to invite you to make some communication to them on the subject, either personally or in writing, and my object in now addressing you is to invite you to do so accordingly. The Committee will meet again in London on Tuesday next, and they would like to know by that day whether you wish to respond to their invitation, and in that case they will arrange to give you some early opportunity of making your communication. I am instructed to say that a short account has been drawn up of the facts communicated to the Committee, and that that statement now in my possession shall be read over to you if you desire it, and you may if you please take extracts from it with a view to the communication which you are invited to make. Should it not be convenient for you to do this to-day the statement will be at my office in Stourbridge the whole of Monday next, and the like opportunities now offered in relation to it shall be afforded to you or to any gentleman authorized by you on calling there at any time during that day. In case of my absence you will please inquire for my partner, Mr. Shepherd, who will carry out these arrangements. The Committee reserve to themselves full liberty to take any proceedings they may think proper, and to deal in any way with any statement which you may lay before them.

I am, sir, your obedient servant,

Mr. Atherton.

JOHN HARWARD.

A letter, of which the following is a copy, was received in reply :

Victoria Hotel, Douglas, Isle of Man, July 30th, 1872.

DEAR SIR,—I have this day received yours, and am prepared to take oath that I bred the Wild Eyes heifer mentioned in yours ; but I am sorry to say that she took what we call staggers in the head, and was obliged to be killed. I also wish to state that she was a Wild Eyes. I shall be here a few days, as I am judge at the Isle of Man Show on Wednesday next. Yours obedient,

THOMAS ATHERTON.

John Harward, Esq., *Winterfold, Kidderminster.*

In reply was sent a letter, of which the following is a copy :

Winterfold, Kidderminster, 1st August, 1872.

SIR,—I beg to acknowledge the receipt of your letter dated the 30th ulto., and shall be much obliged to you if you will kindly let me know whether you propose to make any, and, if so, what further communication to the Committee in reference to my letter to you of the 27th ulto. If I am correct in assuming from your letter that the heifer in question is dead, I would impress upon you the importance of having the skin and horns preserved, as they would form an important feature in any further investigation. I am, sir, your obedient servant,

Mr. Thomas Atherton, JOHN HARWARD.

Chapel House, Speke, near Liverpool.

No further reply having been received from Mr. Atherton, the Committee met and instructed their Secretary to communicate further with Mr. Atherton, and he accordingly sent him a letter, of which the following is a copy :

Stourbridge, August 29th, 1872.

SIR,—In continuation of my letters to you of the 27th of July last and of the 1st inst., I am directed by the Committee therein mentioned to inform you that after considering the facts of the case, and that serious contradictions are involved in it, which in the interest of the public should be carefully investigated, they have resolved to invite you and the opposing parties to attend a meeting of the Committee, to be held by them for the purpose of investigating and determining the question in dispute. That question is this, Whether or not the heifer which you sold to Mr. Davies as Wild Flower Oxford 2nd on the 14th of November, 1870, and as to which you gave a written pedigree was the identical heifer which Mr. Ashburner sold to you as The Blanche Rose in September, 1870, and which was bred by Mr. Cheney? Several parties have represented to Mr. Davies that the heifer which you thus sold him was The Blanche Rose, while you yourself deny this, and allege that the heifer you sold was truly described in the pedigree you gave, and that you yourself bred her. The Committee wish at the meeting so proposed to be held to hear all that can be alleged by yourself and your witnesses on the one side, and by Mr. Davies and his witnesses on the other side on this point, and then to form an opinion thereon upon the evidence produced, and to communicate that opinion to both the parties and to all the Shorthorn breeders by whom the Committee were appointed. In the conduct of this investigation, the Committee feel that a serious responsibility devolves upon them, and they will approach the subject without prejudice or bias, as though they were jurors solemnly sworn to do justice between the parties according to the weight of the evidence produced. The Committee propose to hold a meeting for the above purpose, at a place and on a day that may be convenient to all parties, and they suggest the North Western Hotel, Liverpool, as the place, and one or other of the following

days—viz., the 21st, 23rd, 24th, or 25th days of September next as the time for the meeting. The Committee will be glad to hear from you whether you are willing to attend a meeting to be called for the above purposes, and to submit the matter to their investigation in the manner proposed. If so, they will be glad also to know whether the above place and which of the above days will be convenient to you. If you are not willing to attend a meeting such as has been suggested they will be glad to hear from you to that effect ; and in any event they wish to hear from you, through me, with a definite reply to this proposal on or before the 7th day of September next. If anything should happen, on the one side, or the other, to prevent or unreasonably delay a full and satisfactory investigation of this matter in the way proposed, the Committee will take such other proceedings in the case as they may consider necessary for the information of Shorthorn breeders and the public.

I am, sir, yours obediently,

Mr. Thomas Atherton, JOHN HARWARD.

Chapel House, Speke, near Liverpool.

No reply has been received to this last letter, and the Committee now think it their duty to communicate these facts to Shorthorn breeders and others interested in promoting the breed of Shorthorn cattle, in order that each gentleman may, if he pleases, investigate this matter further, and draw proper conclusions therefrom. Some public proceedings which have taken place since these inquiries were begun have confirmed the Committee in the conviction that questions of pedigree of this kind deserve and should receive at the hands of all Shorthorn breeders the most careful investigation which the circumstances of each case admit of.

DUNMORE.

SKELMERSDALE.

PENRYN.

N. KINGSCOTE.

86, Brooke Street, London, W., 19th Sept., 1872.

THE HULL LINSEED CAKE TRADE.—At a meeting of the seed-crushers and others, held at the offices of the Chamber of Commerce, on Wednesday, Mr. H. H. Ayre in the chair, Mr. W. Chambers, seed crusher, proposed, That the proceeding of the Committee appointed by the general meeting of August 17th last, and the resolutions passed by them, be and are hereby confirmed. This having been seconded by Mr. S. G. Kidd, seed crusher, was carried unanimously. The resolutions referred to were as follow : That an association of Hull seed-crushers and others interested in the cake trade be formed, to be called "The Hull Pure Linseed Cake Association." That the members of this Association bind themselves to sell no cakes under the name of Linseed Cakes except Pure Linseed Cakes. That it is desirable that such cakes as are made from a compound of linseed and other materials shall be henceforth quoted as "Compo-Linseed Cakes." That this Association shall from time to time take such steps as may be necessary for the protection of the trade against adulteration or any other irregularities. That an analytical chemist be appointed to the Association, and that the members of the Association shall have the privilege of obtaining analyses from him at a reduced charge. That a general meeting of the trade be called, to be held at the offices of the Hull Chamber of Commerce, for Wednesday, September the 18th, to report progress ; and in the meantime a copy of these resolutions be printed and sent to the seed-crushers and others interested, coupled with an invitation to join the Association.

WASTE MATERIALS.—It is intended to have a department at the Vienna Exhibition next year, illustrative of the utilization of waste products since 1851 ; and Mr. P. L. Simmons has undertaken the formation of a collection, to be shown in the British section.

THE FRENCH PEASANT FARMERS' SEED-FUND.

Mr. Furley, who is engaged in distributing the small balance, has addressed the following letter to the President :

9, Rue Neuve, Versailles, Aug. 15.

DEAR LORD VERNON,—I have just returned from a tour through Lorraine, Luxembourg, and the Ardennes. During the last two years I have so frequently written to you about the waste and destruction occasioned by the late war, that it is a great satisfaction to me now to be able to tell you how rapidly this country is assuming its wonted appearance—though in some places evidences of the campaign are still painfully conspicuous, and to assure you of the generally good results obtained from the labours of the committee of which your lordship is the president. I passed hurriedly through Lorraine. The once gay town of Metz, now in the hands of the conqueror, and from which more than 20,000 of the French inhabitants have gone, is too sad a subject to dwell upon. I visited Luxembourg in order personally to thank those persons who at the outbreak of the war rendered me so much willing assistance; then Thionville, and afterwards came on to Sedan. There, notwithstanding the foreign occupation—and the inhabitants themselves admit that the three or four thousand Bavarians who now form the garrison behave admirably well—everybody was looking cheerful. A return of fine weather and the promise of abundant crops have made people more or less forget their troubles. I spent a day in the neighbourhood of the town. I crossed the now celebrated battlefield, and at Douzy had a long conversation with the curé and those persons with whom I lodged during the fortnight that succeeded the battle. All declared the crops to be very fine, and far beyond the average, and they said that ten days of sunshine would be of incalculable value to France. I also called on M. Missot, the curé of Bazeilles, who has shown so much energy on behalf of his unfortunate parishioners, and whose appeals on their behalf have been responded to from all parts of Europe and America. The village, which was utterly destroyed, is rapidly rising again from the ruins, and its present appearance indicates that its former prosperity will again return to it. I was struck by a sign over one of the best of the well-built stone houses in the principal street; French vitality is well expressed by the words printed in large characters on the front of this inn, which is decidedly superior to its unfortunate predecessor, *Aux Ruines des Bazeilles*. Often during the day my thoughts wandered from the cheerful scenes before me to that memorable time, not quite two years ago, when on fields from which every vestige of verdure and fertility had been trodden out of the soil, I stood among the dead and the dying. Now golden corn and patches of green crops stretch as far as the eye can see, but here and there a white wooden cross with a faded wreath suspended to it is visible over the waving ears of grain. In most cases where bodies had been buried separately they have been removed to a cemetery or collected in larger graves, on some of which the inscriptions are painful in their simplicity. Close to La Moncelle is a wooden cross, on which are the words “Many Bavarian Warriors (*Viele Bairische Krieger*) fell here on the field of honour, 1st Sept., 1870”. Near the park wall of the Chateau Monvilliers a small black marble obelisk has lately been erected, and on this, under a bronze wreath, is the epitaph, “Here rest 500 brave Bavarians.” Many, both French and Germans, lie in the cemeteries of Balan and Bazeilles. Two days ago I was at Mézières (Ardennes). The terrible bombardment to which this town was subjected is still very evident, but many houses have been rebuilt, and the fine church which was very much injured has been restored, with the exception of some of the windows. The mayor, the Comte de Bethune, being unwell and confined to his chateau a few miles out of the town, on the borders of the forest in which the limits between France and Belgium are so difficult to trace, I had an opportunity to see additional proof of the wealth of the present harvest. A few words in conversation struck me as particularly expressive. It was remarked that ten consecutive years of such harvest would restore France to her former position; and a farmer replied, “Ten consecutive days of such weather as this and France is saved. Wherever I go the greatest gratitude is expressed for the aid rendered by England to the innocent victims of the war, especially through the *Daily News* Fund, the Society of Friends, and that

society in which I have the honour to be associated with your lordship. In some places actual starvation was warded off by means of these societies. The mayor of a village told me the other day that the peasantry, when first they saw the seed sent out from England, could scarcely believe that the donors were disinterested, while some even suggested that the grain would be found to be worthless. They were, however, persuaded to sow it, and the result has been so successful that in more than one commune they are now anxious to know how they can purchase similar seed in future. This will, I am sure, be gratifying information to those gentlemen who devoted so much time and valuable experience to the selection and purchase of the seed. I have not thought it necessary to weary you with details as to the manner in which I am disposing of the balance left in my hands. I will send the receipts and report as to the manner in which the money is expended to Mr. Jenkins in the course of a few weeks. In distributing this sum, including the £200 sent to me a fortnight ago, and the £100 intrusted to me by the Society of Friends, I use my own discretion, the original object of the Seed Fund having necessarily changed with the season. I merely confine the money exclusively to small cultivators for the purchase of anything useful to them in agriculture. Again, I must thank you and my colleagues on committee for having permitted me to be your almoner, and thus furnished me with an object for work which has my entire sympathy. Although at the outset of this special undertaking, owing to the war of the Commune, I was more or less debarred from serving the Seed Fund to the full extent of my wishes, it is a satisfaction to me to feel that I have since been of some use, and that my presence in France has enabled me personally to distribute every shilling committed to me without any deduction for expenses.—Allow me to remain, dear Lord Vernon, faithfully yours,
JOHN FURLEY.

NORTH NORTHUMBERLAND REPORT.

After long waiting for a settled change of weather we are yet unable to give such reliable outlines of the corn harvest as could be hoped for. Partial reaping was in operation on early favoured localities by the 20th of August, and on many farms in good state of cultivation large breadths are yet uncut, with barely a sheaf safe in the stack, the atmosphere having from the first been extremely unsettled. It is many years since we experienced so many broken days, or rather lost time. The last days of August and first week in September were generally damp, with dense hot fogs, grain either cut or uncut, where ripe, spoiling by sprout; and the grain was in no condition for ingathering until the 16th instant. With a stiff breeze of wind, which continued until yesterday at noon, all available hands were busied making good progress, reaping, carting, and stacking—the fields dry for the first time for carrying horse and cart, but, alas! a storm from the north put a sudden stop to all field work. A cold wind to-day has set the teams again to work, but elements seem very unsettled, and ready for more fall of wet. Wheat will generally prove a light crop, by quantity and quality. Barley, generally late, and very much lodged, has reaped rough, and very little is yet safe; colour and quality not fine. Oats generally reaped a full straw crop, and looks to yield a fair average. Beans and peas a great bulk of haulm, slightly podded, and will not yield well. Potatoes, so far as the tops can tell a tale, are cut down like withered straw; garden varieties bad, very bad. Turnips have made great progress during the last month, and generally look well for a crop; although late, and much choked with weeds, many very fine fields are met with. Our greatest crop, and one of the bulkiest grown in the recollection of the oldest inhabitant, is hay, and hundreds of tons have been got together late, of less value than well-won straw. Pasture grass was never more plentiful, with weeds and green herbage of all sorts luxuriant, and the gigantic thistle not to be forgotten. Old meadows, where depastured, have carried more than usual grazing stock; yet, owing to the general wetness of the soil, immense numbers of gad-flies, &c., the animals have been restless where sheds were not provided; hence great damage is always done by the roading and lairage of cattle and sheep. Young pastures or grass-seeds have not done so well as might have been expected for sheep; too much fresh math. Heavy losses among the lambs have occurred: a sort of wasting of the system, and pining, takes place, nor have we been able to find out a remedy.—Sept. 20th.

REVIEW OF THE CORN TRADE DURING THE PAST MONTH.

This fearful year of fluctuations has at last produced a month in which the extremes of summer heat and winter's cold have closely followed each other. From 141 in the sun we have descended to 7 degrees of frost at night, and with almost a droughty surface in the south of England we have had rains in Scotland so damaging to the outstanding corn that half the crop has been sprouted; some to the length of three inches, till the oldest man living in those parts is unable to recall such ruinous weather, the best and richest districts having fared the worst. Nor is it the corn only comprehending wheat, barley, and oats, that has so suffered, but potatoes, for which that northern portion of our isle has been so long famed, have been injured to a like extent, leaving the agricultural interest in severe distress where funds sufficient were not in store to meet the sad eventuality. It is grievous thus to write after noting the shortcoming and sprouting of the white wheat in the South of England, but the truth must be told, and 1872 be written down as an exceptional year to the many fruitful seasons with which Great Britain has been favoured. Yet the average bulk of our wheat has been so deficient in quality that it has been difficult to sell for meal purposes, while the few fine samples appearing have been taken either by millers or for seed at great rates. So we perhaps never had a greater variation of prices, the lowest beginning at 35s. and the highest reaching to 70s. and even 72s., while 60s. to 61s. has been difficult to obtain on average sorts. With comparatively little damage to the red it has been worth more than the white, and millers have been driven to the use of foreign in unusual quantities at fully 3s. to 4s. more than was lately paid. It is true our French neighbours are reported to have an unusual abundance, but as yet we have seen but little of it; and though we are told they will have three million quarters to spare, we very much doubt it; but if they should, and all the spare produce should be appropriated to British wants, this, beside the usual nine million quarters from other sources, will, we believe, all be required without any serious reduction in rates before next harvest. At Danzig, the quarter to which we principally look for fine qualities, rates for new wheat have advanced to 67s. per qr., cost, freight, and insurance included, and old wheat, from its scarcity and the determination of town millers to keep up their quality, has been taken by them at 72s., which price has since been refused. Prices have been low in Spain, and the yield there is said to be good; but it is many years since much came thence, though some arrivals have already been noted, and more will doubtless speedily follow till a check is put upon the movement by advanced rates. Fluctuations are likely to rule, according to a consumptive demand, all through the season. The following rates were quoted recently. White Mayence wheat at Paris to 54s., red to 50s. 6d.; white at Bordeaux 50s. 6d., at Nantes 49s. 6d.; Ghirka wheat at Marseilles 58s., Berdianski 61s.; old Danish red at Antwerp 65s., Californian 63s. 6d.; red at Liege 58s., at Courtrai 56s., at Brussels 64s.; white Zealand at Amsterdam 63s.; red Rostock at Hambro' 63s., at Petersburg 55s. 6d., at Pesth 54s. to 61s., at Berlin 54s.; wheat at Rostoff 44s., at Marianopoli 45s.; wheat at Arealvo in Spain 54s., at Algiers 49s.; spring wheat at New York 49s. 4d. per 480lbs.

The first Monday in Mark Lane opened on a small

English supply of wheat, with a heavy arrival of foreign, about half being from Russia. The show of fresh samples on the Essex and Kentish stands was limited, and mostly new white of too poor a quality to invite free purchases even at only previous rates, but fine, either old or new, was saleable at 1s. to 2s. per qr. more money. The foreign trade was strong as regards inquiry for red American and fine Russian, at a like rise of 1s. to 2s. Floating cargoes were fully 2s. dearer, with a fair sale for everything fine. A more settled conviction in the country that the crops were not only inferior in quality but also deficient, occasioned a further increase in prices. The lowest improvement was 1s. per qr., but more generally the rise was 1s. to 2s., as at Hull, Leeds, Lynn, Melton Mowbray, Manchester, Rugby, Rotherham, Spalding, Uppingham, &c., fully 2s. advance being noted at Birmingham, Louth, Thirsk, Spilsby, Sleaford, and other places. Liverpool was up 9d. for the week on Tuesday, but without change on Friday. Glasgow was 2s. dearer, and Edinburgh 1s. to 2s. A large advance was asked on foreign at Dublin, but only 6d. to 9d. per barrel was paid.

On the second Monday English arrivals were still small, and foreign equally plentiful, about three-fourths being from Russia, and nearly 12,000 from America. The moderate show of fresh samples from the near counties was again but poor in quality, being mostly new white more or less sprouted. This moved off very heavily, at unaltered rates, but fine remained in demand at fully 1s. more money. The large arrivals from abroad by no means depressed the market; sales, though not very readily, proceeding at 1s. improvement on the previous Monday's rates. Floating cargoes remained firm, at the advance lately noted. The wheat trade this week in the country ruled firm, and mostly 1s. to 2s. per qr. dearer. The latter advance being noted at Ipswich, Rugby, Louth, Sleaford, Thirsk, &c. Liverpool was up 1d. to 2d. per cental on Tuesday, and again dearer for white qualities on Friday 2d. to 3d. per cental. Terrific rains with a high temperature having ruled in Scotland and occasioned a general sprouting of the corn in sheaves and uncut, there was a sudden advance at Leith of 5s. per qr., and in flour of 3s. per sack. White barley and oats rose 2s. to 3s., and beans and peas 1s. to 2s., but at Glasgow the advance was not over 2s. on Wheat. With short supplies at Dublin there was a lively demand for foreign wheat, at fully prices, and native oats were 3d. to 6d. per barrel dearer.

On the third Monday there was a better supply of English grain, but less foreign, though the arrivals were still large. This was the largest show of new samples since harvest, but qualities were not improved, and this was also the case with prices. Yet an urgent demand having sprung up for seed from Scotland all new fine qualities received the benefit, and made many shillings above current rates, quite beyond millers' views, though they were willing to pay rather more for what was good. Foreign, without being lively, was about 1s. dearer for fine sorts. Cargoes afloat were fully as dear. Though an upward tendency in prices was still evinced this week in the country, a positive rise was not general. Alford, Barnsley, Sleaford, Gainsboro', Louth, and Spilsby were 1s. higher, and Ipswich 2s., but at Thirsk there was a decline in new wheat of 1s. to 2s. per qr. Liverpool was

2d. to 3d. per cental dearer for white wheat on Tuesday, but 1d. to 2d. lower for red, and there was a decline in red of 2d. more on Friday, white being rather easier. Though more rain fell in Scotland, neither Leith nor Glasgow were any dearer. Full prices at Dublin were made both of native and foreign wheat.

On the fourth Monday there was a moderate supply of English wheat and a good arrival of foreign, though little more than half the quantity of the week previous, and about three-fourths were from Russian ports. The show of fresh samples on the Essex and Kentish stands was limited, and the quality again mostly inferior, so far as the white was concerned. No advance, therefore, could be obtained on ordinary runs, which were a dull sale, though not cheaper, but fine was still in demand for seed. The foreign trade was less active than of late, though full prices were made for good Russian, and American cargoes off the coast were held at advanced rates.

The imports into London for four weeks were 20,703 qrs. English, 177,078 qrs. foreign wheat, against 33,709 qrs. English, 188,099 qrs. foreign in 1871. The imports into the United Kingdom for four weeks ending 14th September were 3,346,946 cwt. wheat, 272,308 cwt. flour, against 4,022,566 cwt. wheat, 310,381 cwt. flour in 1871. The London exports have been 2,839 qrs. wheat, 100 cwt. flour. The averages opened at 59s. 6d. and closed at 59s. 8d. The general averages commenced at 60s. 3d., and closed at 58s., in consequence of the low quality of the new wheat.

The flour trade being in sympathy with wheat has advanced in country sorts 2s. per sack, Norfolks being worth 43s., and the higher qualities in proportion, extra fine American barrels being held at 34s. to 35s. The high rates checking sales, extra State at New York were quoted 28s. 6d. free on board. The imports into London for four weeks were in country sorts 78,643 sacks, in foreign 22,922 sacks 18,204 barrels, against 58,147 sacks English, 3,445 sacks 10,818 barrels foreign in 1871.

The supplies of maize have been fair, but not so heavy as expected, and this grain has further increased in value from 1s. to 1s. 6d., the rise from the lowest point being about 3s., good American mixed being now held at 29s. 6d., and as barley has so much advanced this grain is likely to be still higher. Fine white Galatz has been sold at 35s. The imports into London for four weeks were 61,267 qrs., against 38,426 qrs. in 1871.

The new barley as yet has come to market very slowly, reports varying much as to the crop, both in quality and quantity. In the mean time fine new Saale has arrived, and being very excellent has brought 52s. per qr., the price of English new not being yet settled, but the best new French has advanced fully 3s., being worth 35s., and fine old 32s. to 33s.; grinding sorts have also risen 1s. to 1s. 6d.; low qualities brown through previous heat being held at 27s., which two months back were not worth over 22s. per qr. At Copenhagen 54lbs. quality was quoted 38s., cost, freight, and insurance; fine sorts not yet appearing. The London imports for four weeks were 1,845 qrs. English, 27,110 qrs. foreign, against 577 qrs. English, 34,036 qrs. foreign in 1871.

The oat trade, with fair foreign supplies, has been gradually recovering from its late depression, a rise of 6d. per qr. taking place regularly every Monday, and sometimes for fresh corn it has been more, making a total advance of quite 2s. per qr.; and as we have had early indications of winter in the late sharp frosts, it seems very likely that present rates will be about supported till some heavy arrivals shake values for a time. 40lbs. fresh Swedes are worth about 23s., 38lbs. 21s. 6d., Russian 33lbs. about the same or 6d. less, this quality being most abundant. The imports into London for four weeks were

1,782 qrs. English, 198,855 qrs. foreign, against 3,987 qrs. English, 309,923 qrs. foreign in 1871.

The bean trade has had a gradual tendency upward since the advance in maize and barley, and for the month may be called fully 1s. per qr. dearer, with more ready sales. New mazagans are worth about 36s., narrows 35s., fine small old 45s., Egyptian 33s., Smyrna 35s. The imports for four weeks into London were 1,268 qrs. English, 5,346 qrs. foreign, against 1,064 qrs. English, 2,144 qrs. foreign in 1871.

In peas the upward movement has been more marked, especially in boilers, which had been depressed below their relative value to hog-feed; these latter have improved fully 1s., but white have risen 3s., fair Canadians being held at 42s., with 41s. refused, which two months ago were difficult to move at 36s. or 37s. White sorts being still moderate may advance further in the winter, especially should it be sharp and long. The four weeks' imports into London were 1,178 qrs. English, 3,459 qrs. foreign, against 2,126 qrs. English, 960 qrs. foreign in 1871.

Linseed, with moderate supplies and feed stuffs rising, has continued at a high range, with little or no prospect of a decline, and cakes since the frost have been in better demand. The imports for four weeks have been 24,260 qrs., against 27,846 qrs. in 1871.

But little has been doing in seeds, stocks of cloverseed held over being very small, and consisting mostly of red American, which has been hardening in value for the past month, as well as white qualities. The crop is now considered very short and prices likely to be high in the coming season. The new mustard has turned out of poor quality, and some quantity has been sold at 8s. 6d per bushel. Tares remain very low.

CURRENT PRICES OF BRITISH GRAIN AND FLOUR IN MARK LANE.

	Shillings per Quarter.
WHEAT, Essex & Kent, white old 58 to 65, new 54 60, fine 64	
red... 59 62, " 50 60, " 62	
Norfolk, Lincolnsh., and Yorksh., red, old...	57 62
BARLEY... 31 to 36... Chevalier, new...	40 48
Grinding... 29 32... Distilling...	33 38
MALT, Essex, Norfolk, and Suffolk...	65 74
Kingston, Ware, and town-made...	67 74
Brown...	55 61
RYE...	38 38
OATS, English, feed 21 to 26...	27 33
Scotch, feed... 00 00... Potato...	00 00
Irish, feed, white 18 21... Fine...	22 24
Ditto, black... 18 21... Potato...	26 31
BEANS, Mazagan... 32 34... Ticks...	32 34
Harrow... 34 36... Pigeon...	37 45
PEAS, white, boilers 37 41 Maple 37 to 40 Grey, new	32 35
FLOUR, per sack of 280lbs., best town households...	43 54
Best country households...	44 47
Norfolk and Suffolk...	41 43

FOREIGN GRAIN.

	Shillings per Quarter.
WHEAT, Dantzic, mixed... 60 to 65... extra...	67 to 70
Königsberg... 60 65... extra...	64 69
Rostock... 60 63... old...	70 76
Silesian, red... 69 61... white...	64 68
Pomera, Mecklenburg, and Uckermark... red...	60 62
Russian, hard, 47 to 51 St. Petersburg and Riga...	55 60
Danish and Holstein, red 53 61... American 59 62	
Chilian, white 66... Californian 66... Australian 61 67	
BARLEY, grinding 28 to 32... distilling and malting 32 36	
OATS, Dutch, brewing and Polands 19 to 25... feed 16 19	
Danish and Swedish, feed 20 to 21... Stralsund... 20 22	
Canada 19 to 21, Riga 20 to 21, Arch. 20 to 21, P'sbg. 20 22	
TARES, Spring, per qr... small 35 36... large... 44 44	
BEANS, Friesland and Holstein...	35 37
Königsberg... 34 to 35... Egyptian...	32 33
PEAS, feeding and maple... 32 37... fine boilers...	37 40
INDIAN CORN, white... 32 34... yellow...	29 30
FLOUR, per sack, French... 00 00... Spanish, p. sack 00 00	
American, per bri... 26 29... extra and d'ble. 30 33	

IMPERIAL AVERAGES

For the week ended September 14, 1872.

Wheat	57,001 qrs.	58s. 0d.
Barley	2,166 "	35s. 10d.
Oats	2,144 "	23s. 5d.

COMPARATIVE AVERAGES.

Years.	WHEAT.			BARLEY.			OATS.		
	Qrs.	s.	d.	Qrs.	s.	d.	Qrs.	s.	d.
1868...	91,075½	54	4	25,265½	44	0	4,005½	28	5
1869...	57,593½	60	5	5,394½	38	3	2,391½	25	5
1870...	91,811½	46	6	24,441½	36	4	4,749½	23	9
1871...	71,419½	66	7	2,186½	35	8	2,472½	24	9
1872...	57,001	68	0	2,166½	35	10	2,144½	23	5

AVERAGES

FOR THE SIX WEEKS			Wheat.			Barley.			Oats.		
ENDING			s.	d.		s.	d.		s.	d.	
Aug. 10, 1872	.....	.....	59	6		30	8		25	1	
Aug. 17, 1872	.....	.....	59	10		30	3		23	7	
Aug. 24, 1872	.....	.....	60	3		32	8		26	7	
Aug. 31, 1872	.....	.....	59	6		31	3		25	2	
Sept. 7, 1872	.....	.....	57	5		36	4		23	5	
Sept. 14, 1872	.....	.....	58	0		35	10		23	5	
Aggregate of the above	.....	.....	59	1		32	10		24	6	
The same week in 1871	.....	.....	56	7		35	8		24	9	

FLUCTUATIONS in the AVERAGE PRICE of WHEAT.

PRICE.	Aug. 10.	Aug. 17.	Aug. 24.	Aug. 31.	Sept. 7.	Sept. 14.
60s. 3d.	...	...	...	...	...	...
59s. 10d.	...	...	...	...	...	...
59s. 6d.	...	...	...	...	...	...
59s. 5d.	...	...	...	...	...	...
58s. 0p.	...	...	...	...	...	...
57s. 5d.	...	...	...	...	...	...

BRITISH SEEDS.

Mustard, per bush., brown 14s. to 16s., white 6s. 0d. to 10s.	
Canary, per qr. new 54s. 56s. old 52s. 55s.	
Cloverseed, fine red and dark purple 68s. 72s. com. 46s. 56s.	
Coriander, per cwt. 22s. 23s.	
Tares, winter, new, per bushel 5s. 0d. 5s. 6d.	
Trefoil, old and low 16s. to 20s. new fine 22s. 24s.	
Ryegrass, per qr. 24s. 25s.	
Linseed, per qr. sowing 66s. to 68s., crushing 60s. 62s.	
Linseed Cakes, per ton £11 5s. to £11 10s.	
Rapeseed, per qr. 62s. 65s.	
Rape Cake, per ton £6 6s. 0d. to £6 10s. 0d.	

FOREIGN SEEDS.

Coriander, per cwt. 23s. to 24s.	
Cloverseed, red 44s. to 50s. white 68s. 70s.	
Hempseed, small 36s. to 40s. per qr. Dutch 46s. 46s.	
Trefoil 16s. 18s.	
Ryegrass, per qr. 24s. 26s.	
Linseed, per qr. Baltic 58s. to 62s. Bombay 64s. 65s.	
Linseed Cakes, per ton £10 15s. to £11 5s.	
Rape Cake, per ton £6 6s. to £6 10s.	
Rapeseed, Dutch 60s. 62s.	
Carraway, new 33s. 34s.	

HOP MARKET.

BOROUGH MONDAY, Sept. 28.—During the past week the supply of new hops has been rather more than equal to the demand, and prices in consequence are slightly easier. The choicest and most coloury hops attract greatest attention, the yellower sorts being for the present neglected. Our letters from the Plantations state that there is a great falling off in colour, and that large quantities will, of necessity, be brown. The Continental markets exhibit no change.

Mid and East Kent	£9 9	£10 10
Weald of Kent	7 7	8 8
Sussex	6 6	7 10
Farnham and country	0 0	10 0

YEARLINGS.

Mid and East Kent	£7 7	£8 8
Weald of Kent	5 12	6 6
Sussex	5 12	6 0

WORCESTER ANNUAL HOP AND CATTLE FAIR.—Thursday: The great annual hop, cheese, and stock fair has been held here to-day. Owing to the prevalence in this and the adjoining counties of the foot-and-mouth disease, there was a comparatively small supply of both cattle and sheep in the fair (only 3,000 of the latter), and prices were well sustained. There was a good demand as usual at this fair for rams, which ranged in value from £10 to £20 each, but anything worth having fetched £7 to £15. Cotswold and Shropshire were the breeds most in request, and very few good animals went back unsold. Ewes averaged £3 3s. each. Good horses very dear, but "screws" were to be had at every price. Fat beef fetched 8d. to 9d., and mutton 9d. to 10½d. per lb. Stores rather

dearer. The cheese fair, which formerly was an important one, has dwindled to nothing owing to the practice latterly prevalent of factors buying at the dairies. The hop fair was well attended by merchants and factors from London, Birmingham, Liverpool, Manchester, and Yorkshire. There were about 300 pockets of new Worcester hops, and of this number about 220 had passed the scale at the close of the market. Prices ranged from 95s. to 115s. per cwt. There were the offers made, but the planters were generally unwilling to accept them, and no great deal of business was done. The yield of this district is estimated at £12,000 old duty. Picking is going on favourably, the weather having been excellent up to-day, and the sample is remarkably choice.

POTATO MARKETS.

BOROUGH AND SPITALFIELDS.

LONDON, MONDAY, Sept. 23.—There were limited supplies of potatoes on sale, and with a steady demand very full prices were realised.

Kent Regents	6s. 0d. to 7s. 6d. per cwt.
Essex and other Regents	5s. 6d. to 7s. 6d. "
" Rocks	5s. 6d. to 6s. 0d. "

PRICES of BUTTER, CHEESE, HAMS, &c.

BUTTER, per cwt.: s. s.	CHEESE, per cwt.: s. s.
Dorset.....128 to 130	Cheshire.....64 to 80
Friesland.....112 114	Dble. Glouce., new 60 70
Jersey.....84 98	Cheddar.....63 72
Fresh, per doz. 12 15	American.....58 68
BACON, per cwt:	HAMS: York.....108 116
Wiltshire, green... 76 80	Cumberland.....108 112
Irish, green, f.o.b. 76 80	Irish.....102 112

NORTHAMPTON CHEESE FAIR, (Thursday last).—

Only a comparatively small quantity of cheese is now sold at the fair, and the whole stock brought into the market on Thursday could be placed in a very limited space on the south side of the square. Business was not very brisk, and there was very little really good cheese on the ground. Cheeses were to be bought at the rate of 6d. per lb., but they were, of course, only poor in quality. Very fair cheese could be bought at 7½d. and 8d. per lb., suitable for ordinary family consumption; and some of the rarer and better cheeses fetched as much as 10d. per lb.

GLASGOW CHEESE MARKET, (Wednesday last).—

There was a small supply of Cheese forward, for which there was a moderate inquiry, at the full prices of last week. Cheddars 56s. to 65s. per cwt., Dunlops 53s. to 62s.

ENGLISH WOOL MARKET.

LONDON, MONDAY, September 23.—In the English Wool market the business doing has been only moderate, owing to the attention bestowed upon the public sales now in progress. Prices, however, are well maintained.

CURRENT PRICES OF ENGLISH WOOL.		s. d.	s. d.
FLEECES—Southdown hogs	per lb.	1 9½ to 10½	
Half-bred ditto		1 9½ 1 10	
Kent fleeces		1 10½ 1 11	
Southdown ewes and wethers		1 9 1 10	
Leicester ditto		1 11 2 0	
SORTS—Clothing, picklock		1 7 1 8	
Prime		1 4 1 5	
Choice		1 3 1 3½	
Super		1 2 1 2½	
Combing, wether mat.		1 10½ 1 11	
Picklock		1 7½ 1 8	
Common		1 6 1 7½	
Hog matching		1 11½ 2 0½	
Picklock matching		1 7½ 1 8	
Super ditto		1 6 1 7½	

MANURES.

Guanos, Peruvian £12 10 to £13 15 0	Cloverseed, N.A. 0 0 to £0 0 0
Lind. Bomby, p. q. 3 4 6	3 5 0 Niger..... 2 7 0 2 8 0
Linseed Cake, per ton	Nitr. of Soda, p. ct. 0 14 0 14 5
Amer. thin, bgs. 10 0 0	10 5 0 German Kainit..... 2 5 0 0 0
Cotsd. Cake, decur. 7 10 0	7 15 0 Tallow, lat P.Y.C. 0 0 0 0 0
Rapeseed, Gazeat 3 1 0	3 2 0 " super. Norths 2 4 0 0 0 0

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Mangold Manure	"	8 0 0
Prentice's Turnip Manure	"	6 10 6
Prentice's Superphosphate of Lime	"	0 0 0

Agricultural Chemical Works, Stowmarket Suffolk.

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NOVEMBER, 1872.

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THE

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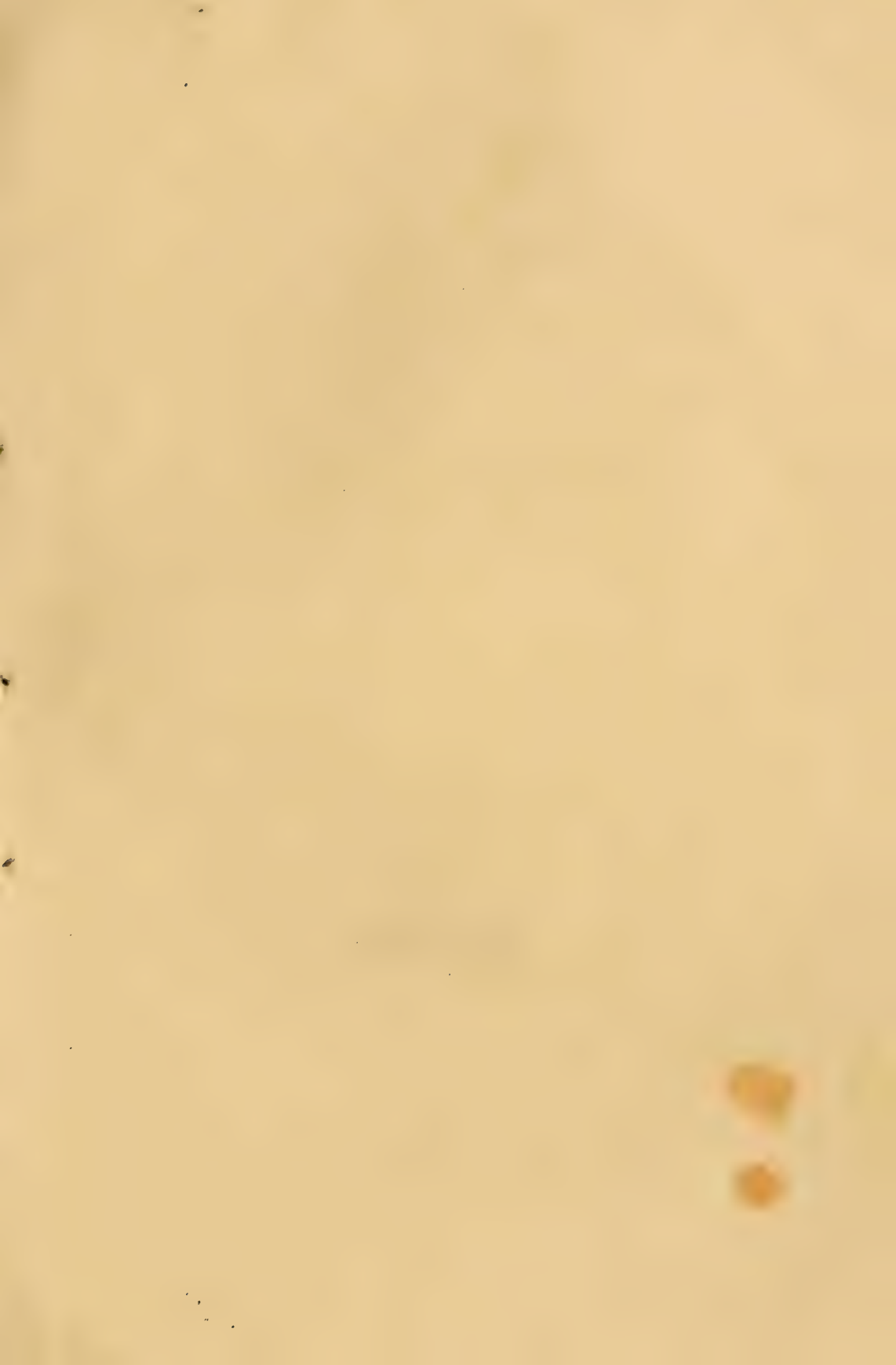
NOVEMBER, 1872.

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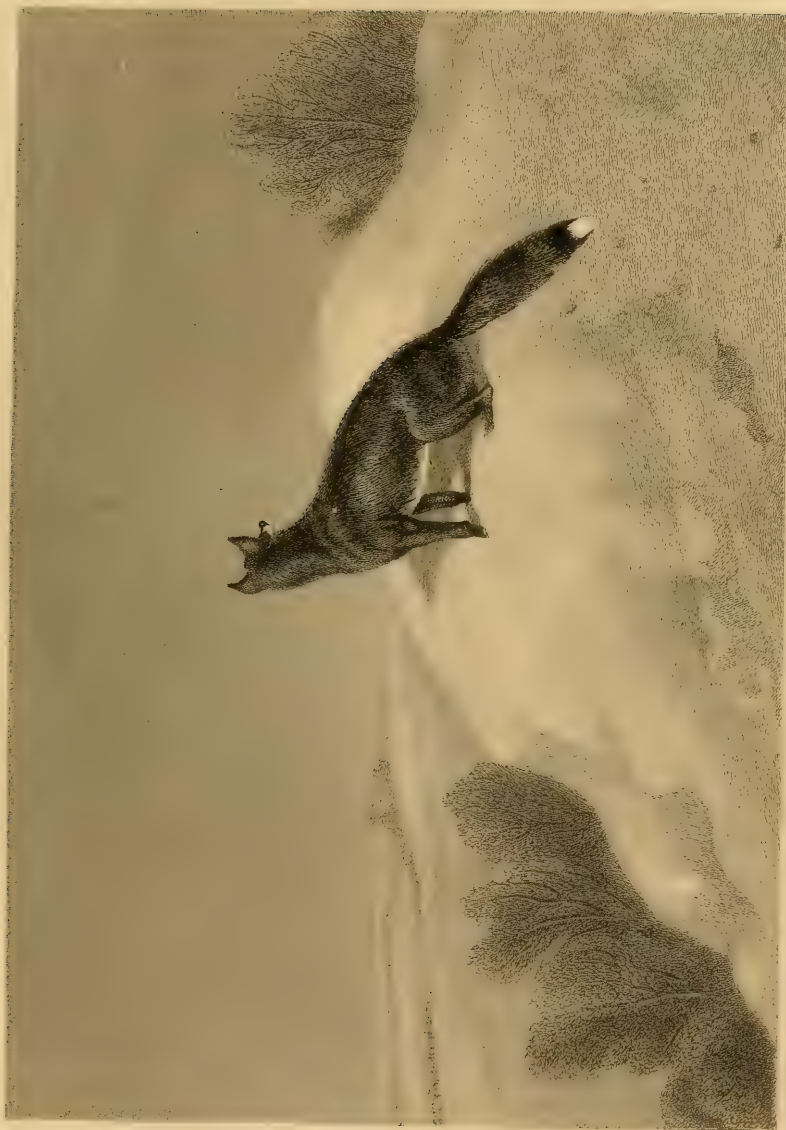
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A Royal Berkshire Pig
The above is a fine specimen of the breed, and is the property of Mr. J. H. Smith, of the County of Kent.



A Cold Look out.

London: Published by Rogers and Turner, 45, Strand 1842.

THE FARMER'S MAGAZINE.

NOVEMBER, 1872.

PLATE I.

A "ROYAL" BERKSHIRE BOAR.

THE PROPERTY OF MR. HEBER HUMFREY, OF KINGSTONE, SHRIVENHAM.

This boar, No. 380M, and now known as Sir Dorchester Cardiff, was bred by Mr. Humfrey, and farrowed on June 15th, 1871. He is by Leamington out of Idstonia by Rainbow, her dam Winchester.

Leamington was second prize at the Warwickshire show at Leamington in 1870; reserve number at the Royal show at Oxford in 1870; first prize at the Gloucestershire show at Cheltenham in 1871; and first prize at the Warwickshire show at Rugby in 1871.

Leamington was by Souse Genteel, first prize at the Hants and Berks show at Reading in 1866; first prize at the Gloucestershire show at Cheltenham in 1867; and second prize at the Hants and Berks show at Winchester in 1868.

Idstonia, a sow of the same litter with the first-prize pair of young sows at the Bath and West of England show at Southampton in 1869, was by Rainbow, who was also sire of Royal Oak, first prize at the Royal show at Oxford with sow and litter, and a winner of six other prizes.

Winchester was first prize at the Hants and Berks show at Winchester in 1868; and afterwards sold to Mr. Cooper, of Limerick, as whose property she won several prizes in Ireland.

This boar, Sir Dorchester, took the first prize and the Duke of Marlborough's extra prize, at the Oxfordshire show at Thame in May of this year; the first prize for young boars at the Bath and West of England show at Dorchester in June, when we wrote of him as "the most

promising pig in the show;" was quite overlooked, as we stated at the time, at the Hants and Berks show at Windsor; and took the first prize in the old boar class at the Royal show at Cardiff in July. On his return, however, from South Wales, and after going through the hardships of a lengthened quarantine, he lost his position at the later shows from want of condition, so essential a point in a show pig.

Mr. Heber Humfrey's stock traces back to 1855 to a favourite boar eighteen years old, descended from blood considered a generation before that time as some of the purest Berkshire in existence. This was crossed with a pair of sows purchased of a neighbour, but known to be direct from the late Mr. John King Tombs' stock. In 1863 a young boar was purchased of Mr. Tombs called New Policy, which afterwards took second prize at the Bath and West of England show at Bristol in 1864. This re-cross into the Langford blood, after six or eight years, has been backed by the occasional introduction of pure strains from other breeders.

Since 1864 Mr. Humfrey has taken over eighty prizes, while his breed is represented in most of the colonies and many foreign countries. Two sows purchased from him at Wolverhampton, T*plash and Sweet Seventeen, took first and second prizes of over 300 dollars, at the Great Annual Exposition of the Illinois Swine Breeders Association at Chicago in Sept., 1871. Other prizes have been awarded to the stock in Canada and the United States.

PLATE II.

A COLD LOOK-OUT.

Where in a wide unbroken maze
Is lost each long familiar phase,
And wearily there meets the gaze
A cold look-out.

A whitened sepulchre of sport,
A winding-sheet that signs *le mort*,
Or really something of the sort.
A cold look-out.

But to the fox high holiday,
His Christmas-tide, his hour of play,
Monarch of all he can survey,
A cold look-out.

For bunny's burrowed up at home
No more Dame Partlett cares to roam,
And cackling geese can find no foam,
A cold look-out.

But those who live, to live must eat,
And reynard some fat larder cheat,
Or there's a blank when next we meet,
A cold look-out.

Look out, ye keepers, great and small,
A sharp look-out, ye henwives all,
Or foxy on your fowl will fall—
That's your look-out!

LABOURERS' WAGES AND LANDLORDS' DUTIES.

It is noticeable how little "sensation" an outbreak of rinderpest has created in the country. It is by no means, as might have been expected, the engrossing subject at our agricultural meetings. Beyond a passing word as to care, caution, and the duty of the Government, little is said, and the company passes on to the consideration of apparently a far more interesting question. In the flow of *TABLE-TALK* which week after week now runs through our columns the condition of the labourer continually comes to the surface, and this difficulty is gradually but certainly assuming a new complexion. The labourer's case is no longer a mere matter for master and man to adjust, but it has been found necessary to look down a little deeper. There are certain contingencies beyond the actual amount of wages which go to make a good and respectable workman, as the very first of such essentials is a decent "handy" home. And for some years past on many of the large landed properties a systematic effort has been made in precisely the opposite direction. The aim has been not to identify the man with the place, but to let him understand that when the day's work is done the sooner he clears off the better. Nothing could naturally for all sorts of reasons be worse than this line of policy. A long dreary walk to and from his work takes something of "the steel" out of a man; he is not so fresh as he should be when he gets to it, and he is fit for nothing when he gets back again. Tired out, the bit of ground, even if he have it, is uncared for, while palpably the further he lives away from him the less sympathy has the servant with his master. And yet, not so very long since, it was thought a very clever thing by smart agents and even "distinguished agriculturists" to clear them out in this way.

But a marked revulsion has come at last, not the instance of the farmers only or of the landlords, but even at the call of the labourers themselves. The men are not merely asking for more money. In an address just issued under the signature of Mr. Strange, the originator of the movement in Herefordshire, the very opening runs thus: "This is not altogether a matter of wages—the means of improvement we formerly pointed out, and to which we would now more urgently call your attention, are these. On the part of the landlord, good cottages held direct of him (with the exception of stockmen and waggoners under due notice), and with sufficient water supply; allotments of land where the gardens are not amply sufficient; and for men who have shown thrift by saving money, the opportunity of keeping a cow." Here, surely, is the cue for the farmers to take up, and so pass the word on to the landlords. As Mr. Strange says, "it is not altogether a matter of wages," as Mr. Strange, no doubt, knows as well as we do that some of the most extravagant and improvident men are artisans and mechanics in the receipt of high wages. But only trace these men home to the wretched suburbs or back streets, to the two or three slovenly ill-placed worse built rooms which it is scarcely possible to keep clean and neat, so that no wonder the attempt is given up in despair, and more money comes to mean more dissipation elsewhere. At the Bishop of Gloucester's conference on Saturday last the men present went, again, for better houses and larger allotments. Some of the landowners would appear to think that sufficient has already been done in this direction, and at Weedon Sir Rainald Knightley drew a comparison in favour of the farm labourer in this wise: "In the rural districts, especially on the property of that most maligned class the country gentlemen, the labourer is generally able to obtain a tidy and respectable cottage, and very likely a piece of land attached to it, at merely a nominal rent. He attached the greatest possible importance to the labourer having a

comfortable home, and he believed labouring men did too." This doctrine is sound enough, but too much is built from too narrow a basis, as we gravely question whether the labourer can "generally" obtain "a respectable cottage with a piece of land attached to it." However, on the very same day the chairman of another agricultural dinner in a neighbouring county, Mr. Bolton King, at Warwick, said: "He had heard that it had been said by several persons that the landowners and farmers provided very bad cottages for their labourers. There never was a more unjust or a more untrue charge made. If they would only look through the larger and middle-sized landed estates they would find that the cottages of the agricultural labourer were in a good state of repair, and so fitted as to promote decency. During the last few years much money had been spent by the owners on the labourers' cottages—not for profit, because no man whose property consisted of labourers' cottages got more than one per cent. for his money, but because they felt it necessary to do so to promote the comfort of their labourers." Again, our own experience about the country leads us to an opposite conclusion, as that these opportunities for labourers to make homes are not so available as they should be.

It may, though, be better that these statements should be confirmed or corrected by the farmers over whom these two landowners were presiding. At Weedon, then, Mr. R. Doig, following Sir Rainald Knightley, was, "as a tenant-farmer of thirty-five years' standing, of opinion that every landlord was in duty bound to provide proper cottage accommodation for the labourers engaged in tilling his land; and it was as necessary as it was to build barns and other accommodation for the occupation of his land. He could produce instances of labourers travelling three or four miles to and from their work daily; and was that a right thing to allow?" And at Warwick Mr. T. Horley said: "Any one who had an intimate knowledge of the subject knew and must acknowledge the great want of accommodation for labourers on a large portion of the land of this country. In some places labourers could not get a cottage within three, four, or even five miles of their work, and this was a great tax on the employer as well as the employed. A man could not, after walking that distance, do that service which it was important should be done if wages must rise as they had been doing for the last few years. He did not think the farmers of England would be afraid to face the labour difficulty if the landlords would provide them with accommodation for the labourers, or enable them to provide it. He knew himself of thousands of acres in this county where the labourers had to reside a long way from their employment." This is put in a very business-like way. If more wages must be paid there should be more work in a man, but this cannot be if he is to wear himself out in travelling to and fro. With the aspect the labour question is now assuming it is very evident that an incoming tenant should give as much attention to the cottages on or about the farm as he does to the boxes and home buildings; while it will be ultimately to the landlord's best interests to meet him here. Sir Rainald Knightley says all the rents received for his cottages are spent again in keeping up the repairs, and but a few days since we walked through that model village in Chatsworth Park, which of course has never paid for the outlay. We do not go so far as this, but however little a landlord may receive from his cottage property he must not regard the difference as money lost but look for the return in other ways. There is, in his own immediate interests, an imperative necessity for his doing so, as the alternative of much higher wages will in the end adjust itself to lower rents.

LORD DERBY ON AGRICULTURE IN 1871 AND 1872.

A comparison between the address delivered by Lord Derby at Liverpool last year and that at Preston last week will serve to show how rapidly one particular principle is developing in the minds of thinking men. In 1871 Lord Derby said "What is wanted from the landlord is much less than that he should put a large amount of capital of his own on to the soil—though of course that is desirable—than that we should offer no obstacle to its being put on by the tenant. Security is the first requisite, and I hold that any tenant good enough to be kept permanently on the land ought to have a lease if he wants one." It will be noticed that Lord Derby adheres here to the old formula as to there being no security without a lease. He never once refers to the other phase of the question, as he is careful to make no mention of Tenant-Right and unexhausted improvement. This is or was in 1871; while in 1872, after again speaking to the conditions of a lease, his Lordship goes on to say, "in the case of a yearly tenant the claim to compensation for unexhausted improvements is certainly stronger, and if, in cases of that kind, grievances arise, as I have read in the newspapers, I think the question of legal protection is a very fair one to raise." And, again, "speaking as a landlord, I am not in the least afraid of *bonâ fide* claims on the ground of improvement." Of course, as everybody knows who has at all studied the subject, the great impediment so far to the advance of Tenant-Right has been offered by the landowners, who have shown themselves afraid of recognising *bonâ fide* claims for unexhausted improvement, and who have done their worst to debar the occupiers from legal protection. In doing so, they have pretty generally been driven to the alternative which only a year since Lord Derby altogether affected, as he still speaks as if leases were the rule and yearly tenancies the exception. Whereas, precisely the contrary is the fact. Between twenty and thirty years since, when the Farmers' Club took up and was continually discussing the nature and merits of the Lincolnshire custom, *The Times* newspaper started a travelling Commission, with, as it would almost seem, the main object of stifling the Tenant-Right cry. No man could farm well without a lease was the ready chorus to every letter in *The Times*; the Lothians were farmed on leases—and so on. We shall, however, be bold to say that from that time the call for leases has been dying out, and the principle of compensation coming more and more into fashion. It could, indeed, of a necessity be scarcely otherwise, but that as one falls the other should rise; and the Fenton-Barns case has done something to dispel even the Commissioner's reverence for the Lothians lease. Lord Derby says any good man should have a lease if he wants one; but the truth is that a vast majority of good men do not affect such a system of tenure—one by no means perfect of itself—and we must speak to things as we find them. The mistake with Lord Derby is that, instead of taking a comprehensive view of his subject, he is apt to draw too much from himself: "For my own part, I would much rather sacrifice game altogether than quarrel with my tenants; but I have certainly not found that objection to it within moderate limits which is often talked about." Now, well as this reads by way of an individual example, it is when closely examined, little more than the utterance of a truism. The tenants, at least, do not talk about the game when kept "within moderate limits," but only when it is immoderately preserved, a distinction which makes all the difference. Again, Lord Derby "cannot call to mind that on the estates with which I am connected any de-

mand for additional security has ever been addressed to me." Very possibly not, but even if Lord Derby's estates were much worse managed than there are known to be, there might still be the same reticence on the part of the tenants. Many a man who feels his insecurity dare not, in the present very sensitive relations between owner and occupier, ask to be placed in a better position; but although he may not move singly he will do so with others in a body. Lord Derby must not estimate the need for Tenant-Right by his own experiences as a land-owner, but by the strength of the cry as it now comes from all parts of the country.

Even Lord Derby's partial adhesion must carry great weight, for it is evident in every word he utters how he has mastered his subject. Thus in Ireland the abuse or excess was that "the tenant did most of the work of permanent improvement, buildings included;" whereas "in this country all works of that kind are landlords' works, and the Irish claim does not arise," or, "if they be undertaken by the tenant there should be a definite agreement." Nothing can be sounder than this, as we have ever maintained that such permanent operations as draining and building should only be undertaken on special agreement. The aim, however, occasionally is to carefully confound the permanent with the temporary, until we arrive at some such prodigious result as this—that the tenant shall be paid for his unexhausted improvements if he holds an agreement to that effect!

The resolution now going about the country from the Central Chamber of Agriculture altogether shirks the tenant's chief interest in Tenant-Right, that is the claim for temporary improvements, and speaks to nothing but the permanent, made with the landlord's consent. Nothing, as a consequence, can be more unsatisfactory than some of the discussions which have followed on this text word; while *The Fortnightly Review*, in a lengthy paper, declares that "the impotent resolution brought forward by the Central Chamber of Agriculture deserve nothing but the contempt of all thorough reformers." These, or this as put at Crewe, would seem to be not so much impotent as absurdly imperfect; and of course so thoroughly earnest a man as Mr. Latham could not suffer such a proposal to pass without a rider, which goes to make the Cheshire manifesto the strongest yet published. There is altogether a haziness about the Central Chamber's resolution which leaves one in doubt as to whether temporary improvements, that is the actual business of the farm, should ever be recognized!

Lord Derby is perhaps still stronger on the labour than the land question. His sound practical turn of mind enables him to estimate at its true value the utter idleness of Mr. Speaker's co-operation scheme; while, no doubt, he points to a weak place in farm management, when he protests against the practice of paying a really good just the same wages as a bad workman. And landlord, tenant, and labourer would look to be tolerably well agreed on this point, for that which Lord Derby said at Preston Mr. Charles Howard said some years since at the Farmers' Club, and at one of the earlier movements amongst the labourers Mr. Howard's opinions as to discriminating between the industrious and skilful and the lazy and indifferent were quoted in approval by Mr. Strange, the secretary of the Shropshire Society. On the allotment system Lord Derby is not quite so clear, as he almost infers that this had broken down. Of course the bit of ground cannot

be of much use, but rather an incumbrance on a man who has to walk any distance to it after his day's work is over. The main value of the allotment we take it is when the land is found close to some rural village or

hamlet, and mapped out into small gardens for the villagers' use. When a labourer lives in a remote cottage on the farm the case is altered, as no difficulty should be here made in giving him a garden as part and parcel of his house.

THE GAME-LAWS BLUE BOOK.

It is no secret that the members of the Game-laws Committee grew weary of their work before the Session was over, that rumour declared the chairman was about to resign, and so forth. Nevertheless, they recommend in a report of four lines by way of preface to the evidence just issued, "that the committee be re-appointed at the commencement of next Session to continue the inquiry." A glance through this terrible jumble of a Blue Book will serve readily enough to show how the business gradually became so irksome and so uninviting. The conduct of the inquiry was framed on no system whatever. Mr. Sewell Read and Sir James Elphinstone were examined on the same day; the opening sittings were essentially English, and the closing meetings essentially Scotch. The English phase of the question was fairly but still barely opened by Mr. Read and Mr. Mann, and then abandoned. The wrongs of the farmer, the injury caused by ground game, and the practical remedies proposed eventually gave way to the rights of deer forests and the opinions thereon of such authorities as Sir James Elphinstone and Lord Airlie. To have properly carried out the comprehensive character of the proceedings a witness or two should have been summoned from India and a few more from Australia, when the sport of the jungle and the forest might have been nicely associated to the great edification and proportionate delight of men like Mr. Dent and Mr. Read, who are probably anxious that something may really come of the Commission.

And yet, overlaid as the thing has been by Scotch prejudices and even personalities, it is curious to see how thoroughly so far the English farmers agree in their proposals for reform with the more reasonable of the Scotch landlords. Mr. Sewell Read, speaking for himself and his fellows, as they nearly all back him here, would give the tenant a right to, or at least a joint-right to kill the hares and rabbits; and at a meeting held only the other day in Aberdeen of a body of Scotch landlords for the purpose of receiving the report of the committee appointed at the annual stated general meeting of the commissioners on 1st May, 1871, to confer with tenant-farmers on the game question, the main recommendation in the said report for divers causes, duly stated in our last number, ran thus: "The remedy which your committee would suggest is to give tenant-farmers power to protect themselves on their respective agricultural farms; and your committee recommend that while the proprietors reserve to themselves their right to kill game, hares, and rabbits on their estates, they should give to their tenants power, by themselves or others, to kill hares and rabbits on their respective farms." Of course this was resisted, and something like "a row royal" the consequence, in which naturally Sir James Elphinstone and his evidence came to the fore. Some of the more tangible reasons given, however, for not adopting the report are so remarkable, that it might possibly have been better, on the Dr. Fell principle, to have given no reasons whatever. Thus, in the words of the amendment, "as the whole subject of the Game-laws is under consideration by the Select Committee of the House of Commons, any further action by the county is, under present circumstances, unnecessary and inexpedient." Whereas, if the conference between the owners and occupiers in Aberdeenshire was ever intended to lead to any

result, it was surely that the two classes should endeavour to settle their differences without the intervention of the legislature. This, on the face of it, is merely shirking the subject; nor does the chairman, Lord Kintore, who in the outset attempted to influence the meeting by the expression of his own individual opinion, do much better: "If tenants suffered from grievances, they were, he thought, bound to represent them to their landlords, and the landlords were bound to take cognizance of them and endeavour to redress them, instead of bringing them up at a meeting like that." Why, heaven and air! as Sam Slick says, does not Lord Kintore see that bringing up the grievances at a meeting "like that" was precisely the business of the meeting? and cannot Lord Kintore gather from the report that the existence of such grievances and the fact of their *not* being taken cognizance of was the actual origin of "a meeting like that." Still, on his own estates, "since the 3rd August, 1866, his tenants were at liberty on their own farms to shoot the rabbits and hares, upon the distinct understanding that they did so themselves or by their deputies only." Very good; but on the other hand, close upon four thousand tenants in Aberdeenshire state that their crops are continually damaged; and so let Lord Kintore now make a companion inquiry as to how many of the neighbouring Lairds give a similar permission to their tenantry, and as to where any cognizance is taken of the damage done.

The evidence given in the House of Commons and the evidence given in Aberdeenshire point as directly to the remedy required—the *hares and rabbits must go*—not necessarily swept altogether off the face of the earth, but kept down in a way which no keeper and probably no man but a farmer would do. Lord Clarendon said at Watford last week: "It was my fortune, not many years ago, to deliver many speeches on the game question in Warwickshire, when I had the honour to stand for that county. Now, Warwickshire is essentially an agricultural county, and I was told that when in speaking of rabbits I said that rabbits should be the property of the tenant, I was propounding a revolutionary theory. But I don't see that I was wrong, and it is still my opinion that rabbits ought to be the property of the tenant. There is no such nimble an animal to avoid a gun as a rabbit. I have seen fearful ravages caused by rabbits! In Lanarkshire, which is a great game-preserving county, I asked a relative of mine a question on the subject, and when I said, Surely the farmers ought to have enormous compensation for the damages they sustain, the reply was, We do not pay enormous compensation, for our farms are underlet." Here we have England and Scotland together again over this matter of ground game, and again let my Lord Kintore pursue his inquiries. If farms are underlet in Lanarkshire—that is if the most be not made of them—from the ravages of rabbits and hares, Lord Kintore will see in a moment that the question becomes yet more distinctly a national business.

The destruction of rabbits is certainly no longer a revolutionary theory, although we do not advance quite so much by means of what Lord Kintore calls "representation" as might be desirable. But very recently a case occurred in the eastern counties where a son threw up

his father's farm in consequence of certain amended conditions in the agreement, whereby the tenant was denied the power to destroy either the rabbits or rats, but the keepers would kindly see that this was done! Here is a field for "representation" and no mistake! when the rat takes his place amongst the sacred animals, and a fellow in a velvet jacket has the right to come loafing about your homestead on the pretence of looking after the vermin—either to kill or preserve according to the ruling of the market. In another quarter a landlord hopelessly in the hands of money-lending lawyers, still tells the eaten-up occupiers that if they do not like their farms they can give them up, and he will hold them himself. Lord Derby would seem to have commended this practice in his speech at Preston, when he "did not hesitate to say that in many, perhaps in most, parts of the country game-preserving has been carried a great deal too far. If a man wants to carry it on to the extent that some landowners do, let him take what land he requires into his own hands and bear the expense and the loss himself." Such a suggestion is on the face of it an absurdity, as Lord Derby must see. As a rule the heavy preservers are thoroughly selfish, and even if they could take to game-preserving farms on a large scale it is altogether against the national welfare that they should be encouraged to do so. As Lord Derby intimates, the simple truth is that a large majority of the game preservers are as great offenders as ever, and

nothing short of the interference of the legislature in the direction intimated will really correct the evil. And yet only look to the bolstering up of such a state of things by such a paper as *The Saturday Review*: "It may possibly diminish the energy of agitators to be told that the inhabitants of large towns are very fond of rabbits. There is a demand for rabbits as regular as the demand for beef or mutton, and a good authority stated to the Committee that the rabbit is the favourite delicacy of the working-man of London for his Sunday dinner." And in the very same article the writer says, "there is a good deal of nonsense talked about the necessity of preserving and enlarging deer forests;" and again, "it is probably true that venison is not more nourishing than mutton, and that for one hundred head of deer a forest would yield five hundred or more sheep." Fancy any one committing himself in print in this fashion! If venison is not more nourishing than mutton are rabbits more nourishing than mutton? If in place of so many deer you could keep so many sheep, does the man not know that for so many hares and rabbits you could keep so many sheep? If not, let him look up Mr. Pusey's statistics. In the words of this famous reviewer "there is a good deal of nonsense talked about the necessity of preserving deer," and by his own showing there is a deal more outrageous nonsense talked about the necessity of preserving rabbits.

THE LOCAL TAXATION CRY.

Seldom have the farmers had so little to say for themselves as during the autumn opportunity now so rapidly fading away. It would certainly have been possible to have extended our TABLE-TALK to almost any length, but even then there would have been but little room for the agriculturist himself. It has been the old story of the chairman, the clergy, the town and county members, his worship the mayor, and so forth; with but a word or two left at the fag-end of the sitting for a judge, a steward, or an exhibitor, when half the company has gone home, and the other half tired out. A few years since the people about the vice-chair at the other end of the room really seemed to be getting the chance of an innings, but the honourable gentlemen at the high table have dispelled the last faint hope of a hearing from such a quarter. However much or little he may say in the House your county member has now a terrible flow of words to the mouth so soon as he feels himself at home again. And of late he has waxed more than usually eloquent, with quite a round of subjects to play at touch-and-go with. There is the labour question, to begin with, upon which he has some good advice to offer his "friends," with possibly a word or two of warning to his own class. Then he glances coyly enough at TENANT-RIGHT, while he speaks still more tenderly as to any threatened modification of the Game-laws. After all, as he puts it, if men only behave properly by each other why should the legislature be called on to interfere in the adjustment of their agreements? which is a very self-evident proposition, as it is only when men do not behave properly by each other that the law must interpose. If men were never robbed of their property by other men's hares and rabbits, or if men were never denied the right to their own, of course there would be no necessity for either making or amending laws; but unfortunately nature is not quite perfect, and whether a man suffer from the depredations of his fellows or from vermin it is

equally clear that the legislature should provide for his protection.

Honourable gentlemen are not commonly emphatic here; but there is one topic over which they fairly rise to the occasion. This, of course, is the great agricultural question, in carrying out which they must be thoroughly united. There must be no Party spirit evinced; they must all pull together; there must be no running wide from the scent, for this is a landlord's question, and a farmer's question, and a townsman's question, and everybody else's question, and above all the great agricultural question of the day. And, certainly, the more they talk about it the more involved does the whole business become. Very early in the season the land authority of *The Saturday Review* kicked the hare out of her form again after this fashion: "The scheme on which Mr. Gladstone and Mr. Goschen are bent is peculiarly distinguished by its exclusively political character and motive. The tenant-farmers whom they propose to bribe by the offer of gratuitous relief have never complained, and could not have complained, of abiding by the contracts which they have voluntarily made. An increase of rates during the term of a tenancy of course imposes an additional burden on the occupier; but the possibility of an imposition of new rates ought to have entered into his calculation." We say in direct contradiction to this, as indeed we have often shown, that the tenant-farmers have complained, and have asked for half-rating, from Northumberland right down to Sir Massey Lopes' own door in Devonshire. Nay, at just about the very time *The Saturday Review* was saying so much with all its customary confidence, the especial organ of the Local Taxation committee had to find insertion for the following straight-forward letter from a Lincolnshire farmer: "I think the tenant-farmers of England will not endorse the sentiments of a Huntingdonshire farmer, that a provision 'in any Act of Parliament,' dividing the rates

between landlord and tenant, is a delusion and a snare. I feel deeply grateful to Mr. Corrance for a similar clause in the first Cattle Plague Act, and I never heard of any tenant-farmers in Lincolnshire who failed to obtain their legal rights under that measure. I, along with many of my brother farmers in this county, only wish Mr. Corrance had been supported in carrying out such a provision in the Public Health Bill. I feel convinced that no thorough revision of local taxation will take place so long as landlords are enabled by Act of Parliament to put the whole expense of new rates upon their tenants, instead of bearing a moiety of the burden upon their own shoulders." Let us, however, having satisfied the reviewer, so far follow out his argument: "The possibility of an imposition of new rates ought to have entered into the occupier's calculation" when taking the farm." Was there ever such an absurdity as the mere supposition that a landlord or his agent would treat for a moment with a man in this way; that is, for a lower rent on the ground that new rates might be imposed? The greater probability is that after Sir Massey Lopes' glorious triumph, a rise in rents might be suggested on the showing that the taxes were about to be reduced.

But this, after all, is only one view of the subject. At Hounslow the other day, Lord George Hamilton, M.P., said, "Last year a proposition was made that the landlord should pay one-half the rates, and it was said that such a measure would give great relief to the tenants. He was decidedly of opinion that the landlord ought to pay a proper proportion of the rates, but whether they were paid by the landlord or the tenant, the taxation would ultimately fall on the tenant, and the proposition was an utter snare and a delusion." It is only to be hoped that his Lordship was correctly reported, as there is a freshness of thought here that is quite charming. "Ultimately all the taxes fall on the tenant," and this makes it a farmer's question and no mistake; although so far there has been an immense mistake, as people calling themselves political economists have contended that *ultimately* all taxation must fall on the landlord. But this, it seems, is a snare and a delusion. Nevertheless, at Barnard Castle, in the very same week, another honourable gentleman, Mr. Pease, said "they were told, and no doubt very truly, that all taxation on land had come out of the

pockets of the landlord ultimately, but it was a long time before that ultimately came on to the tenant-farmers. One or two recent enactments had come very hardly upon tenant-farmers. He knew cases where alterations in the poor-law assessment had led to farmers being raised from 4d. to 6d. in the pound in the rates." Surely in the face of this half-rating is not quite a delusion and a snare, but the very thing to afford the farmer some relief when alterations in the interim raise his rates from 4d. to 6d. *The Saturday Review* says, "Although the proposed change in the law of rating will not affect the income of the great landowners, it will have the advantage of inflicting upon them serious inconvenience, and in some instances it will disturb their friendly relations with their tenants. Their less fortunate neighbours will suffer in pocket as well as in political influence. The small landowner who has struggled to retain a scanty inheritance, or who has invested in the purchase of two or three farms his professional or commercial savings, is comparatively at the mercy of the tenant-farmer, who knows that the owner would be ruined if the land were thrown on his hands." This is very touching, but it is happily a picture drawn solely from the imagination. No man who has had the sense to invest his hard-earned savings in two or three farms ever need fear the possibility of these being thrown on his hands. A house in a town will remain unoccupied for a year or two, but so soon as there is a farm, large or small, to let there are plenty of people ready to take it on almost any terms, and we speak here to a fact but too well known. As Sir Rainald Knightley puts it, although he means to put it the other way, "the farmer knows if he gives the farm up there are twenty other men ready to take it;" while the honourable Baronet maintains that "only when the landlord extracts every farthing he can, and takes all the rack-rent he can, does local taxation become a landlord's question." But this rather opens another phase in the relations between landlord and tenant, namely, to what extent the cultivated lands of the kingdom are under-let? Another authority, Mr. Genge Andrews, has declared, on the contrary, that so soon as you take off £180 in rates, *of course* he shall put it on in rent. Of course he will, as a re-adjustment of local taxation must mean mainly to the farmers a re-adjustment of rents.

T U R N I P C U L T U R E.

BY THE NORTHERN FARMER.

The land properly worked up, thoroughly cleansed, and in every way in good style for drilling, the farmer who has kept his horses employed at every suitable opportunity during the winter in carting dung to the headlands or other position convenient to the green crop break, will now reap the full advantage of his provident industry. He is able to make the most of every favourable opportunity afforded by the weather, compressing the work of three days into one, and, if extensive, he can by the concentration of both manual and horse power, which the proximity of the manure permits, carry on the various processes simultaneously; the dung is covered as soon as spread, the seed sown after an hour or two's drying, and thus by the retention of the moisture an early and vigorous braird is secured. With the immensely altered state of the labour market, and consequent seriously-increased expenditure on the part of the agriculturist, the quality of the manure used has become a matter worthy of his earnest consideration, apart altogether from its

effect on the soil. Mere quantity, by the extra labour unavoidable in its collection and application, is now bought much too dear, unless the fertilizing element is largely present; composts or any bulky mixture other than pure farmyard dung must therefore be used with extreme caution, as, if extensively depended on, the cost of production may possibly far outrun the beneficial results obtained from the crop with which it is used. The labour of collecting material for a large compost heap, and giving the various turnings necessary to secure equalization of its constituents, is so herculean, that in the altered state of agriculture with regard to expenditure for labour it becomes a question of grave import whether compost ordinarily so called is really worth the trouble which its collection, management, and application unavoidably involves. Certainly the day is past for drawing any material to the manure or compost heap, which does not largely consist of decomposing vegetable matter. Poor earth from headlands or old banks, together with peat or

bog-stuff, should therefore be discarded as fertilizers by every farmer who makes the slightest pretension to skillful or economical management. A comparatively slight dressing of dung, made under well-fed cattle, will show infinitely better results than can be obtained by the application of earthy composts, even although the latter may be laid on in fourfold quantity. When land is naturally good, and has been farmed for a lengthened period on a generous system of husbandry, there is no difficulty in growing a heavy crop of turnips, a moderate dressing of any of the concentrated manures now so extensively manufactured being quite sufficient to achieve success. Such farms being, however, the exception rather than the rule, the majority of those who follow agriculture are compelled to be ever on the alert in procuring material which will either directly or indirectly tend to increase the manure heap. Assuming that most men admit the necessity of using dung only, and avoiding altogether, if at all possible, lowering its quality by mixing earthy matter with it, the influence of which is chiefly felt by the increased amount of labour which it entails, it becomes a question most interesting in its import how the necessary supply is to be kept up. Taking a thoroughly practical view of the matter, there is only one way of securing a successional supply of home-made manure, and that is by continually keeping a heavy stock of animals to the acreage, and feeding abundantly, not only with those crops which provide house-food for every season of the year, but also by using cake, corn, and meal to as great an extent as the current receipts of the farm will reasonably justify. Soil of even very inferior natural fertility can be vastly increased in its manure-producing capabilities in the course of a very few years by a liberal investment of capital in the purchase of manures and extraneous foods, so much so as to render it as nearly as possible self-supporting when regularly persisted in for a number of years. When desirable to procure bulky manure outside the farm, the only available source open to the agriculturist is the town or city nearest to him, or from others which, although too distant to draw manure by road, can yet be economically obtained by water or rail, to a position locally convenient. When real anxiety is felt to supplement the home supply of manure from this source, it is astonishing how many obstacles are conquered which at first sight appeared insurmountable. To procure an article which the zealous agriculturist looks upon as invaluable, time, money, and distance become in his estimation matters of but secondary importance, experience and observation having both taught him to look more to future results than to present trouble and expense, and possessing sufficient force of character to carry out their teachings in his every-day management he lays out large sums, and takes an immense amount of trouble in carrying out laborious operations which it will take years to repay, but which, if neglected, would keep him in a state of chronic poverty and unavoidable misery during the whole of his tenancy. How frequently do we see a farm which for years had the reputation of being a dry, bare, and poor piece of land, on which there was no feeding for stock worthy of the name until June, become noted in the district for its productive powers when it happens to change occupants, the new tenant being a man of energy, and possessed of the necessary capital to carry out his views in improving the soil. By the spring of the third year of his occupation he will be able to cut soiling for house-feeding, in the shape of tares, clover, and ryegrass, in the last week of April where hitherto it had never been attempted till the same time in May, the crop at the same time being fourfold what it previously had been. Although turnips can be successfully grown on good loam without farmyard or other bulky manure, yet on poor, stubborn soils, destitute of decaying vegetable

matter, it becomes absolutely necessary to use some kind of dung in lesser or greater quantity, according to the facility afforded by the situation in manufacturing or procuring it. The fertilising property of this species of manure as directly applicable to the growth of the plants is by no means its only recommendation, its mechanical effect on the soil, by keeping it open for the admission and permeation of the air, being almost of equal importance for the first crop, besides being distinguishable for years in the vastly increased friability of the soil over those portions, it may be, of the same field where the dressing was unavoidably omitted. On almost any land, however rich naturally, or however well manured with dung, it pays to use a portion of artificial manure to aid in quickly developing the plants during the earlier stages of their growth, and forcing them beyond the reach of the fly. If this in the average of seasons is found to be necessary on land in good condition, surely it is much more so on poor soils which possess no quickening powers of their own, and the feeble plant must in consequence maintain a precarious existence until, after much struggling, it can catch the dung. While thus held, if the season is even ordinarily dry, every morsel of vegetation becomes an easy prey to the destructive turnip fly, the heart being completely eaten out of the plants, in which case the sowing is lost, and the field must be re-seeded. Some years ago, when Peruvian guano containing a large percentage of ammonia was easily had, a very slight dressing was an admirable aid in accelerating growth, and securing a successful start for the turnip crop. Latterly, apart from the exorbitant rate now charged for it, farmers are becoming shy of using this manure in any quantity, and prefer those phosphatic manures, which although not so quick in their action are yet more certain in assisting the plant in the successive stages of its growth until the process is completed. Even with such a portable article as artificial manure the labour question makes itself felt, as instead of mixing it with some other substance before strewing it along the drills, it is now mostly applied pure, the only preparation being to reduce it to a state of extreme comminution. Mixed with pure vegetable mould, finely screened, guano gave excellent results, the mould itself being of great assistance as a fertilizer; but of late years labour in most districts has become so valuable as to cause farmers to grudge the time consumed in its collection and preparation. In a series of experiments last season I found that a mixture of several manures produced the best results, both in top-dressing for corn and green crop; $1\frac{1}{2}$ cwt. guano, $1\frac{1}{2}$ cwt. superphosphate, and 3 cwt. kainit, costing 45s. an acre, gave the heaviest crops, and in the case of ley oats, the latter seemed to have acted most beneficially in destroying the wireworm, the plot to which it was applied remaining perfectly fresh and vigorous, while the remainder of the field, consisting of 21 acres, suffered very severely from the destructive ravages of this pest. It is bad husbandry to sow turnips on rough badly prepared land, and however great may be the exigencies of the season, sufficient time should be taken to give the necessary preparation, any time thus lost being far more than made up by the superior excellence of the crop. Should the season turn out dry and otherwise unfavourable to the plant, there is very considerable danger that the crop may be altogether lost, the unreduced clods keeping the soil too open, permitting the escape of moisture, and admitting light and air in such quantity as to materially retard vegetation. For bringing the surface to fine tilth there is no better implement on medium land than the Cambridge roller, used between each ploughing or grubbing. By its action no clod is permitted to be turned under, and as it cuts as well as presses the soil the surface is brought to the de-

sired condition without further trouble. If the weather is dry at the period of sowing, the Cambridge roller makes an admirable finish by passing it over the drills a few hours after being sown; its weight gives some degree of firmness to the soil, and enables it to resist the exhaustive evaporation which proves so especially injurious at the period of germination. Omitting the roller altogether, and giving the small turnip seeds no pressure to enable them to catch the soil quickly, and in dry seasons retain the moisture, appears so unreasonable that it is surprising the system has not long ago become obsolete. Overseeding with the view of in some measure counteracting the mischief done by the fly is a mistake in most cases, as even if the year is in its character favourable for its development, thick-seeding will have but little effect in protecting the crop; while on the other hand, when the seed is thickly sown, and comes on unchecked, the plants are so thick as to cause a large amount of trouble and extra labour in thinning them out, besides having the plants weak and spindly, instead of thick, fleshy, and vigorous, which they invariably are when thinly sown. Three pounds of seed is abundance if the land is in anything like condition, and if help at thinning time is scarce there will be no danger of injury however growthy the weather, even if the operation should be unavoidably protracted. If weeds begin to show themselves it saves much after-labour to side-hoe the drills soon after the plants are so well over-ground as to be distinctly seen from end to end of the rows. Apart from the check given to weeds, and the large amount of future labour which is thereby saved, this hoeing is of great benefit to the crop by breaking the crust and permitting the abstraction of nutritive gases from the atmosphere. In practice this is easily discerned, the newly-stirred soil being in early morning quite moist, while the drills on which the crust still remains unstirred is perfectly dry. The impetus given to the growth of the young and tender plants can hardly be overlooked by the most unobservant, as they grow with astonishing rapidity if the weather is at all favourable. Of all the crops grown by the modern farmer none repay

careful attention and diligent culture so liberally as the turnip, continual stirring with horse and hand-hoes during the growing period being able to nurse plants which had in the beginning of the season the appearance of total failure into such healthful vigour as to turn out by the end of October a most successful and profitable crop. When all the preliminary operations of turnip culture have been properly performed, and the seed sown of moderate thickness—say not more than three pounds to the statute acre—the thinning process, instead of being the most tedious and troublesome business in connection with the growth of turnips, becomes the most easy and pleasant task of the whole season. The conditions being favourable the entire crop can be thinned in the most perfect manner with the hoe without the slightest difficulty or danger of pushing out the plants. The speedy way in which a band of trained workers get over a large extent of surface is extraordinary to those who have not previously witnessed the singling of turnips in this manner, the daily task of each person being from a half to three quarters of an acre. If from thick sowing the plants are weak and spindly, it is a very safe method to gap the lines with the hoe to the required distance, and single out the bunches with the hand. This is a favourite method with growers in nearly every district, and has much to recommend it, being both speedy and safe. One hoeing, and a stroke of the drill-grubber after the thinning, generally concludes the season's culture, the plants covering so rapidly as to prevent further interference, unless at imminent risk of crushing the plants, and so doing more harm than good. Turnip culture has the great merit of enriching rather than impoverishing the soil, as, through its abundant foliage, it is enabled to draw much of its nourishment from the atmosphere, the long tap-root at the same time aiding the bulb in a very great degree by the moisture which it absorbs from the subsoil. The ameliorating effect of the fine tilth necessary to ensure success in turnip-growing, depth of working, and thorough cleansing from weeds, is felt through all the succeeding corn and grass crops of the rotation.

THE HEREFORDSHIRE AGRICULTURAL SOCIETY.

MEETING AT HEREFORD.

The "second thoughts" of the management here would go to strengthen the old adage. It appeared to the committee some time since that for divers reasons it would be advisable not to hold any meeting this season; and, as we hear, it was resolved according. An energetic member, however, Mr. Tomblings, who takes the liberty to think for himself, was of a contrary opinion, and it being found that the general body of subscribers mainly went with him, a reconsideration of the matter led to the wishes of the majority being adopted. And it was well that such second thoughts were acted on as the show, more especially of the native cattle, was a really good, and altogether encouraging manifesto. Moreover, at no meeting of the year have we found so few empty stalls or numbers skipped, so that any fears of foot-and-mouth disease ruining the entry were happily unfounded. Still, the stock show was not now confined to Herefords, but, also at the instance of Mr. Tomblings, red, roan, and white Shorthorns, with a speckled Ayrshire or so, gave a certain variety to the scene, if these rather followed the lead

than disputed the dominion of the reds with white faces. Again, a walk through the fair, that is through the main streets of the city, where smart steers "elbowed" you at every turn, told how here, too, the Hereford held his supremacy. There was only now and then a stray Shorthorn to be seen, and no shadowing of that black cloud which last year fell upon the place. A handsome mottle would still occasionally relieve the monotony of the pale-faces, of which there was a moderate supply of beasts, mostly well "started," with the plenty of keep about, and hard, as the Shire graziers said, to buy. As to the quality, rumour declared that a feeder had twenty or thirty steers waiting Christmas at home, which he was ready to show against the pick of the two days fair for any amount of money. There is, though, a somewhat strong line drawn between the business of showing and that of selling. The chances are, indeed, that our Warwickshire grazier, or yon far-away dealer will never see the show at all. He candidly admits as much as he starts off in search of his herdsman, and we stroll on to the

market, for this day only no market whatever but a grand exhibition, making out our line through "a nicish lot of young things," or fairly headed by a beast, who unwittingly stops the way in deep contemplation of a printshop window.

Flying stationers skirt the entrances with complete catalogues, as they will in a day or two the portals of the Dragon with correct cards, for it is quite a gala week in these parts. There is racing at Gloucester on Tuesday and Wednesday, a fair and a show and an auction at Hereford on the same days, and more racing at Hereford on Thursday and Friday; while the programme of sport in either city is plentifully studded with Farmers' Plates and Hunters' Stakes, so that our Shire grazier, if he has a faucy, as most likely he has, for horses as well as steers, may make his time out pleasantly enough. The very waiters and bar belles, as they get a glimpse of the blue bird's-eye, are manifestly in doubt as to whether you are intent on Bucolics or Olympics, and so proceed to inquire if you shall want your bed for a night or a week? But, even if we did come down in company with Tom Oliver and a bang-tailed four-year-old, there must be no possible mistake as to our going to the cattle show, which opens moderately enough with only two entries in the bull, cow, and calf class. Mr. Philip Turner's winning family, however, is worthy of its place, The Provost being a well-known prize bull, only second to his sire at Cardiff, while if not in years he was otherwise well mated with the dowager Dorcas, a wonderfully good fresh cow at her age, of over ten years. This trio also won at Ludlow last week, but with Mr. Roberts, of Pembridge, now taking second with some younger things, the two-year-old Long Tom having a very nice kindly touch. But family parties of any sort would seem to be more and more difficult to get together, and no question the strength of this autumn gathering is coming to centre very much on the show of yearling bulls, of which there were just thirty entered, with numerous commendations and high commendations appended to the actual award. The class, moreover, was one of unusual interest, as the best things of the year came together to try further conclusions. Thus, Mr. Edwards' Arkwright was the best calf at the Bath and West of England meeting at Dorchester, where he beat Mr. Fenn's Cop Hall; Arkwright was first again at Gloucester, where he again beat Cop Hall, and first at Ludlow in the week previous to this, with Cop Hall still second. On the other side Cop Hall was first, and very highly spoken of by the judges at the Royal show at Cardiff—where, however Arkwright was not entered—and first here at the home show in Hereford, where Arkwright was only highly commended. But the contradictory ruling of judges in 1872, whether of Shorthorns, horses, or Herefords, has been something really extraordinary to follow and study. On first seeing the two together, however, without knowing what they were, standing as they did out of their places at Dorchester, we gave the preference to Mr. Fenn's calf, as we do still, notwithstanding his being virtually in a minority of three to one. Arkwright has capital square quarters, but is terribly light in his girth, and has a mean drooping forehead, while he sadly lacks scale and growth, however good his quality. In fact, at precisely the same age the other altogether overshadows him, Cop Hall's weak place being where his rival is so strong, as the young Severus stands, and finishes badly behind. He has otherwise a fine outline, and is a deep, growing bull, of lots of promise alike to the hand and the eye. Mr. Tudge's Regulus, getting very stylish, the second here, was also second at Cardiff, as sundry commendations were also brought on from one meeting to the other; but then one of the judges was himself a winner at Cardiff, Mr. Powell, of Eglwyswynyd,

the prize farm of the year. Arkwright was kept clear of a prize by Mr. Clive's admirable calf, rather overweighted in age, and the other exhibitors noticed and unnoticed included Mrs. Edwards, of Wiutercott; Mr. Rawlings, of Stoke; Mr. Hill, of Orleton; Mr. Tudge, jun.; Mr. Tanner, of Frodesley; Mr. Harding, of Bicton; Mr. Price, of Pembridge; Mr. Gibbons; Mr. Taylor, of Showle; Mr. Evans, of Swanstone; Mr. Nott; Mr. Bailey; and Mr. Rogers, of the Grove, whose five entries were all commended, while Mr. Arkwright's single entry was the only animal of the thirty not sent. *A very good class*, as the judges might have said officially, instead of appending so many individual commendations, some of which were scarcely merited, such for instance as the *benè* mark put against Waxy Boy's number, a plain, common-looking beast.

Nevertheless, when people came to talk of the best bull in the yard they did not dwell for a moment over the yearlings, but turned rather to the next class of two-year-olds, where Mrs. Edwards won with Winter-de-Cote, the best yearling of last autumn, and so far unbeaten; though he has never ventured far from home, his only trials having been at Leominster and Hereford. He is a straight, deep, heavy-fleshed bull, high bred in appearance, but with a good masculine stamp about his head and in his general character. The class was a superior one to that at Cardiff, and Winter-de-Cote, if he goes on, threatens to be the best bull of his year. The second best from Showle is a great, heavy, forward young bull, rather hard in his touch; and again there was a deal of merit in the class, which ran up to a dozen—by no means numerically a bad entry, all things considered. With Provost out of the way, Bachelor and Stout occupied the same positions as at Cardiff, the Stonebrook bull showing none the worse for having been pulled down a bit in the interim; and a wonderfully bloodlike animal he is, as few ever showed more breeding, if not quite perfect in places. Stout came hard to the hand; and Sir John, a lucky bull at times, was, as we have always contended, never good enough to win in good company.

Lady Milton, a Royal cow, who rather lacks style, was far away the best of an otherwise very moderate lot of breeding cows—a very faint reflection of the Cardiff class—and Lady Oxford was still more indisputably the best heifer. When she won as a calf at the Royal Oxford show in 1870, we thus wrote of the Swanstone entry: "It is a question if the best of all the heifers were not Mr. Evans' calf, which wins decidedly enough in a nevertheless admirable baby show: she is so straight, so clean, and so handsome." And Lady Oxford is still straight, clean, and handsome, having admirably preserved her fine points, although greatly furnished and well on in calf. At Wolverhampton last year she was only highly commended when shown out of all form; while a taint of foot-and-mouth disease in the herd prevented her appearance at Cardiff, where she must have won, as many were ready to maintain that she should have taken the champion prize as the best of her breed at Hereford.

It is but a few weeks since we suggested that gentlemen who undertake to appraise dairy stock at the Royal Society's meetings should take a lesson at Derby, where they show milking cows in really milking condition, and these authorities might take another such a lesson at Hereford. "For the best lot of breeding cows or heifers" Mr. John Rawlings wins with seven cows in calf or with calves which, we hear, have been first and first all about the country, though they look as if they had been driven straight out of the Stoke grazing grounds; and Mr. Tudge is second for six cows and heifers; and Mr. Robinson is highly commended for seven cows, not one of which is under five years old; and Mr. Evans, of Swanstone, is

commended, according to his acreage, for five cows, the senior of which is twelve years and a-half, another nine, and a third eight years old! Mr. Dew shows six cows, Mr. Gibbons sends another half-dozen, and Mr. Tudge wins in another class with six beautiful matchy bloodlike heifers, which have nothing beyond their actual merits to recommend them. Mr. Fenn's quartette are better done by, but then they are only second, as mere condition is not regarded as the first essential of excellence. The pairs of heifers in either class were of no great mark; the Stonebrooke yearlings being both by Severus; while Mr. Morris' two-year-olds showed great growth and Mr. Arkwright's more style. There were but two entries of young steers, Mr. Hill winning with a nice straight sorry couple; and the best fat cow is a three-year-old heifer, long, low, and neat, which goes on to Islington in the prime of her youth; while the other, all wrong and gaudy in her quarters, Mr. Turner will send to Birmingham. The best ox or steer, in his stall at least, looked far away to be Mr. Dew's ox, put second; Mr. Arkwright's best steer having a delicate washy appearance, and being in no way so handsome as the other, and we shall see to their places if ever they meet again.

There were three entries in all in the three new classes of Shorthorns, and had the selection rested with the Hereford men they could scarcely have taken three plainer animals than the Shorthorn bulls brought out to do battle against their own breed. It is, in fact, only to be regretted that the champion prize for the best of all was not thrown open instead of with some timidity being confined to the native cattle. So far there is nothing to fear from the innovation, although had not Mr. Beever just sold out, it is probable that something of a better stamp might have been sent in from Pendraig. The other sorts included one very pretty Ayrshire, and the Hereford cattle show still virtually ends with the show of Hereford cattle.

Indeed we might altogether stop here for the entries of sheep, and pigs are so few as to be quite beneath notice; nor is there yet that improvement in the horse classes which had been expected. The one thorough-bred stallion is a very sweet bloodlike horse, "of more worth," as somebody remarked, "than all the county members," and who was close upon beating that lucky lump of horseflesh Laughing Stock, when they met at Stourbridge soon after Cardiff. The Mallard honestly earned all they could give him here; while of the others, old Mermaid and her two-year-old colt by Kempton were about the best; another Kempton being the first prize three-year-old in a class made up of common things or more bloodlike weeds. The prize cart mare looks of just the active sturdy stamp for the country, and the judges commended the whole class of cart stallions; a general compliment which we do not believe would have been extended to such a lot of animals at any other show in the kingdom. We know well enough from our own experience that overzealous stewards will prompt judges to commend everything they can, but this sort of thing is reaching to a positive absurdity at Hereford. The best of the entry was no question the winner, a three-year-old of some quality, with action and a comparatively clean leg; as many of the others were smothered with bad hair right up the cannon, where it looked to be of neither ornament nor use. Late in the day quite a sensation was created by the arrival of Major Peplow's Islington cup horse, accompanied by another from the same stable; but as they were both carefully hooded and sheeted, and never, so far as we saw, stripped, the presence of these mighty hunters, served to do little more than endanger the lives of Her Majesty's subjects. For some time they were bustled up and down the narrow avenues, until at length a gentleman, who found himself

on the off side of a led horse and at the heels of a cart stallion, loudly protested how it must be "a marcy if somebody ain't killed!" In truth, the part of the market taken in is miserably inadequate to the requirements of the show, as was manifest when all the winning Herefords were brought out again in competition for the champion prize. Instead of parading round in a ring, and so making the most of themselves, they were huddled together in a corner thicker than the steers in the fair, and where it would have been almost impossible to have arrived at a decision had not the judges already some knowledge of the animals. As it was, they called in Mr. Wigmore, and the prize, after some little form of further examination, was awarded to Bachelor, mainly on the argument that a male is of more value in the herd than a female. As a show animal, however, on the day public opinion went the rather for Lady Oxford, as, with room to exhibit herself, and challenge point for point, we believe that she would have won. Under the circumstances, it was either a foregone conclusion, or at best, but a lame "comparison." Then, the catalogue is woefully incomplete. Some short time since, if we remember aright, Mr. Arkwright stated that the Hereford breeders were growing very indifferent as to registering their stock in *The Herd Book*; but surely it would be well to give the name of every pure-bred animal which has a name with the entry? and yet the most successful beasts here, like Mr. Fenn's yearling and old bull, were altogether undistinguished. An available reference is always of value by way of certificate either at home or abroad; and neither in showing nor describing their stock do the Hereford breeders do themselves justice on their home ground.

PRIZE LIST.

JUDGES.—HEREFORD CATTLE: W. L. Powell, Egwylysnewydd, Taibach, and C. H. Hinckman, The Poles, Ludlow. SHORTHORNS, SHEEP, PIGS, AND IMPLEMENTS: T. Morris, Maisemore, Gloucester, and J. Wigmore, Bollitree, Ross. HORSES: Captain Helme, Woolhope Court, and J. Haynes, Llanwrothal, Ross. CIDER AND PERRY: H. C. Beddoe, Hereford, and J. Bosley, Lyde.

HEREFORDS.

Bull, cow, and offspring.—First prize, £10, P. Turner, Leen, Pembridge (Provost, Dorcas, and President); second, £7, T. Roberts, Lawton Bury, Pembridge (Long Tom, Lady, and calf).

Bull, calved on or after 1st July, 1871.—First prize, £10, T. Fenn, Stonebrook House, Ludlow (Cophall); second, £5, W. Tudge, Adforton, Leintwardine (Regulus); third, £2, Rev. A. Clive, Whitfield, Hereford. Highly commended and reserve: H. N. Edwards, Broadward, Leominster (Arkwright). Highly commended: T. Fenn, Stonebrook House, Ludlow (King Severus); W. Taylor, Showle Court, Ledbury; B. Rogers, The Grove, Staunton-on-Arrow (Waxy Boy). Commended: R. Tanner, Frodesley, Dorrington, Salop (Fanciful); J. Price, Court House, Pembridge; H. Gibbons, Hampton Bishop, Hereford (Gaiety); B. Rogers (Bismark, The Baronet, Glendower 3rd, and Patentee 2nd).

Bull, calved on or after 1st July, 1870.—First prize, £5, Sarah Edwards, Wintercott, Leominster (Winter de Cote); second, £3, W. Taylor. Highly commended: J. Harding, Bicton, Shrewsbury. Commended: G. Child, Weston, Pembridge; H. N. Edwards (Albert); W. Tudge (Vespasian); R. Tanner (Frodesley the 3rd); H. Gibbons (Gift 2nd).

Bull, calved previous to 1st July, 1870.—First prize, £5, and 10 s. Cup for best Hereford, T. Fenn, and J. Harding (Bachelor); second, £3, R. Hill, Orleton Court, Ludlow (Stout). Highly commended: H. N. Edwards (Sir John). Commended: J. Walker, Westfield House, Holmer.

Lot of beasts, of the same sex, bred by the exhibitor, a tenant farmer, and above one year and under two years and six months old, in proportion to the quantity of land that he occupies.—First prize, £5, W. Tudge (6 heifers); second, £3, T. Fenn (4 heifers). Highly commended: R. Tanner (5 heifers).

Pair of heifers, calved on or after 1st July, 1871.—First prize, £5, T. Fenn; second, £3, P. Turner (Ruby and Exquisite). Highly commended: P. Turner (Amy and Satellite). Commended: J. Morris, Madley, Hereford.

Pair of heifers, calved on or after 1st July, 1870.—First prize, £5, J. Morris; second, £3, J. H. Arkwright, Hampton Court. Highly commended: J. H. Arkwright. Commended: Rev. A. Clive.

Pair of steers, calved on or after 1st July, 1870.—First prize, £5, R. Hill, Orleton Court, Ludlow; second, £3, J. Price, Court House, Pembridge.

Lot of breeding cows or heifers, not under three years old, that have had a calf within six months, or shall be in calf at the time of showing.—First prize, £10, J. Rawlings, Stoke (7 cows in calf and with calves); second, £5, W. Tudge (6 cows and heifers). Highly commended and reserve: S. Robinson, Lynhales, Kingston (7 cows). Commended: H. R. Evans jun., Swanstone (5 cows).

Fat cow or heifer.—First prize, £5, P. Turner, Leen (Plain); second, £3, P. Turner.

Fat ox or steer.—First prize, £5, J. H. Arkwright, Hampton Court; second, £3, W. Dew, Kivernoll, Hereford.

Breeding cow in calf or in milk.—Prize, £5, R. Tanner, Frodesley (Lady Milton). Highly commended and reserved: J. H. Arkwright.

Heifer in calf or in milk.—Prize, £5, H. R. Evans, jun., Swanstone (Lady Oxford). Highly commended: H. J. Bailey, Rosedale, Tenbury, (Rosa Lee).

SHORTHORNS.

Bull, cow, and offspring.—First prize, £10, O. Viveash, Berwick Bassett, Swindon (Marathon, Beauty and calf); second, £5, J. Pulley, Lower Eaton, Hereford (Cherry, Venus, and calf).

Bull, calved on or after 1st July, 1871.—Prize, £10, J. Pulley (Butterfly Charley).

Pair of cows in milk for dairy purposes of any breed.—Prize, £5, J. H. Arkwright (Ayrshire).

SHEEP.

Twenty Shropshire Down or short-woolled breeding ewes, under three years and eight months old, and not having more than six teeth fully grown; that have suckled lambs to 1st June, 1872.—Prize, 5, R. Tanner, Frodesley, Salop (Shropshire).

Twenty long-woolled breeding ewes, under three years and eight months old, and not having more than six teeth fully grown; that have suckled lambs to 1st June, 1872.—Prize, £5, W. Yeomans, Stretton Court, Hereford (Cotswold).

Five yearling wethers, long wool.—Prize, £5, John Wheeler and Sons, Long Compton, Shipton-on-Stour (Cotswold).

Five ewes, long wool.—Prize, £5, T. Jowitt, The Old Weir, Hereford (Cotswold).

Five wethers, short wool.—Prize, £5, A. Clive, Whitfield, Hereford (Southdown); 2nd, T. Davies, Burlton Court, Hereford; (Shurpsbir).

Five ewes, short wool.—Prize, £5, Jos. Pulley, Lower Eaton, Hereford (Shropshire). Highly commended: R. Tanner (Shropshire).

PIGS.

Boar pig, exceeding nine months old, of the black breed.—Prize, £3, Wheeler and Sons, Long Compton, Shipton-on-Stour.

Boar pig, exceeding nine months old, of the large white breed.—Prize, £3, Wheeler and Sons.

Breeding sow, in or with pigs, of the large white breed.—Prize, £3, Lieutenant-Colonel Feilden, Dulas Court, Hereford. Highly commended: Wheeler and Sons.

Pen of three fat pigs, not exceeding fifteen months old, no restriction as to breed.—Prize, £3, Wheeler and Sons. Highly commended: Lieutenant-Colonel Feilden.

HORSES.

Stallion best calculated to produce good hunters.—Prize, £10, M. Biddulph, Ledbury (The Mallard).

Cart stallion.—Prize, £10, S. M. Day, Hollanton, Holm Lacy. The class commended.

Three-year-old colt, gelding, or filly, suitable for hunting purposes, bred by a tenant-farmer, resident in the county of Hereford.—Prize, £10, Rev. W. G. Lyall, Castle Froome, Bromyard. Special prize, £5, W. Child, Westonbury, Pembridge.

Two-year-old colt, gelding, or filly, calculated to make a weight-carrying hunter.—First prize, £5, S. Smith, Woodmanton, Hereford; second, £2, R. Tanner.

Nag mare with foal at foot.—Prize, £5, S. Smith, Woodmanton, Hereford (Mermaid).

Cart mare with foal at foot.—Prize, £5, H. R. Evans, jun., Swanstone, Leominster.

CIDER AND PERRY.

Dozen of cider, made by the exhibitor, and from fruit grown on land in the exhibitor's occupation.—First prize, £2 10s., M. Biddulph, Ledbury; second, £1, W. Taylor, Showle Court.

Dozen of perry, made by the exhibitor, and from fruit grown on land in the exhibitor's occupation.—First prize, £2 10s., W. H. Apperley, Withington; second, £1, W. Taylor, Showle Court.

EXTRA STOCK.

Yearling bull.—£1, T. Fenn.

Heifer.—10s., T. Fenn.

Bull.—10s., C. Nott, Wigmore (Velveteen).

Bull-calf.—10s., J. Harding, Bicton.

Shorthorn bull-calf.—10s., J. Pulley, Eaton (Lord Claro 2nd.)

Shropshire ram.—5s., R. Tanner.

Essex boar.—5s., Wheeler and Sons.

White boar.—5s., H. J. Bailey, Rosedale, Tenbury (King Lear 2nd).

Berkshire sow.—5s., S. Robinson, Lynhales, Kingston.

Boar.—5s., S. Robinson.

SALE OF STOCK IN THE SHOW-YARD.

Mr. Alfred Edward's catalogue comprised nearly 80 entries of Hereford stock bulls, breeding cows, and heifers. A young bull, Promised Land, belonging to Mr. Price, of the Court House, Pembridge, was purchased by Mr. Meredith, Bailynewydd, Rhayader, for 30 guineas. Mr. F. J. Tudge's Vespasian (1870), R. Allies, Bishop's Froome, 41 guineas; Cincinnati (1871), Mr. Pearce, 46 guineas; Regulus (1871), the second prize at the Royal and at Hereford shows, J. T. Parkes, Lucton, 75 guineas. S. Goode's, Ivington Bury, Albert (1871), H. James, 37 guineas. W. Tudge, Coston Hall: Hiawatha (1871), Dr. Smith, 29 guineas; King Severus (1871), Mr. Watkins, Vronlace, 37 guineas; The Vicar (1871), Mr. Wootton, Penkridge, 35 guineas; Clodhopper (1871), Mrs. Prescott, 29 guineas; Miss Stanway (1870), E. J. Morris, Stanley Pontlarge, 20½ guineas, and Battenhall Maid (1872), 23½ guineas. J. Rawlings, Stoke, Tenbury: Beauty (1866), Mr. Harding, Ludlow, 30½ guineas; The Twin (1868), Mr. Preece, 25 guineas; Blossom (1868), Mr. Trew, Brecon, 23½ guineas; Curley (1867), Mr. Preece, 28 guineas; the bull-calf of Sister to Baronet, R. Meredith, Cowarne, 23 guineas. Yearling bulls: Trade Mark, Mr. Preece, 29 guineas; Herdley, Mr. Davis, Cross Green, Shrewsbury, 24 guineas; Turpin, Mr. Gibbs, Mansley, 25 guineas. T. Rogers, Caxall: Zoca (1871), Mr. James, 46 guineas. R. Hill, Orleton: Stout (1868), second to Bachelor in the aged bull class at Hereford meeting, Mr. Oldaker, The Vallets, Whitfield, 50 guineas; Grateful (1871), Mr. Knight, Walton, Radnorshire, 26 guineas; Cœur de Lion (1871), Mr. Dawe, 22 guineas. Mrs. Edwards, Wintercott: Warrior (1871), for Lord Bateman, 46 guineas. B. Rogers, The Grove: Patentee (1871), Mrs. H. Shenton, Brimfield, 45 guineas; The Baronet (1871), F. Galliers, Upper Derndale, Canon Pion, 33 guineas; Glendower (1871), R. Hill, Orleton, 34 guineas. C. Fenn, The Willows, Ludlow: Crabstock (1871), Mr. Armitage, Dadnor, Ross, 15 guineas. F. Ward, Fairtree, Ledbury: Bull-calf by Wonder, E. Morgan, Clyro, 18½ guineas. Among the animals which were bought in were H. N. Edwards's yearling bull Arkwright at 57 guineas, and his two-year-old heifer Cherry at 37 guineas; S. Goode's Albert (1866), at 35 guineas; W. Tudge's Duchess of Bedford (1870), at 30 guineas; J. Rawlings's The Gem (1867), at 30 guineas, and his Sir Roger (1871), at 29 guineas; A. Rogers's yearling bulls Skewbald and Letton, at 39 guineas each; G. Child's (Westonbury) Enterprise, at 36 guineas; R. Tanner's two-year-old bull Frodesley 3rd, at 44 guineas, and his yearling bulls Fanciful and Old Court 3rd at 58 and 32 guineas respectively; R. Hill's Midland Star (1871), at 28 guineas; B. Rogers's yearling bulls Bismarck 2nd and Waxy Boy, at 50 and 51 guineas; J. Harding's ditto Lord Battenhall, at 30 guineas; P. Turner's ditto Tarquin and Solon, at 34 and 32 guineas; J. Walker's (Holmer) Vainhope, bred by the late Mr. Monkhouse, of The Stow, at 48 guineas, and his cow Duchess 3rd, at 29 guineas; yearling bull, Burlton, the property of Mr. Davies, of Boulton Court, at 34 guineas. A few lots were withdrawn.

MR. LAWES AND THE WHEAT CROP.

TO THE EDITOR OF THE MARK LANE EXPRESS.

SIR,—In Mr. Lawes' letter of this year, giving an account of his agricultural experiments, I see there are some returns relative to the results obtained by the application of different manures, so entirely out of keeping with recognized principles, practical experience, and ascertained facts, that I venture to ask leave to point them out in your columns. For twenty years I have looked forward to, and read, these annual reports with some interest, but I have long thought them futile as illustrating any particular principle or practice, or in leading to the adoption of any new operation in agriculture. I have always, however, thought them honest, and never until this year apt to mislead.

Farmers who live by their business well know that volatile manures—which all artificial manures are, more or less—are comparatively ineffective and profitless in seasons of excessive drought like 1868, or of excessive rains like the past; and yet Mr. Lawes in both these years places the produce of wheat from artificials above that from dung. The following are his statistics:

Years.	No manure.	WHEAT. Dung.		Artificials.	
		at 14 tons per acre.			
1868	16 $\frac{1}{2}$	.....	41 $\frac{3}{4}$	.....	41 $\frac{3}{4}$ bush. per acre.
1869	14 $\frac{1}{2}$	.....	38 $\frac{1}{2}$	.....	34 $\frac{1}{2}$ "
1870	15	.....	36 $\frac{1}{2}$	.....	43 $\frac{1}{2}$ "
1871	9 $\frac{1}{2}$	.....	39	.....	28 $\frac{1}{2}$ "
1872	10 $\frac{1}{2}$	.....	32 $\frac{1}{2}$	.....	35 $\frac{1}{2}$ "
Average for 10 years .	13 $\frac{1}{2}$	.....	36 $\frac{1}{2}$	.....	39 $\frac{1}{2}$ "
21 " .	14 $\frac{1}{2}$	.....	35 $\frac{1}{2}$	.....	36 $\frac{1}{2}$ "

These returns show that dung in 1872 yielded less wheat per acre by 3 bushels than artificials; less for the previous ten years by 2 $\frac{1}{2}$ bushels, and for the preceding twenty-one years by 1 bushel. They also show that the dunged land yielded less by 6 $\frac{3}{4}$ bushels in 1872 than in 1871; while artificials yielded more by 7 $\frac{1}{2}$ bushels, and no manure by 1 $\frac{1}{2}$ bushels. Likewise that the experimental plots generally yielded only 2 $\frac{1}{2}$ bushels, or 8 per cent. under an average crop, which, however, for some reason not mentioned, Mr. Lawes says may be considered equal to 14 per cent. He also states that the average of 19 kinds of wheat dressed alike, show an average increase over last year of 10 $\frac{1}{2}$ bushels per acre. Now as these results generally are so completely in opposition to our ordinary experience, and to the evidence of the whole country as applied to this season, practical farmers, whatever theorists may say to the contrary, must have some misgiving as to the correctness of the data on which these returns are based, and will not come rashly to the conclusion that dung is at a discount. In confutation of the conclusions arrived at from Mr. Lawes' experiments, which, at best, can only be considered as limited and local, I could bring a hundred Richmonds into the field, but shall be content with a few illustrations, not alone from experimental plots, but from hundreds of acres.

First, I will take Mr. Prout's great anti-dung farm, considered by many practical men as the agricultural wonder of the day, to show that his wheat crop, dependant as it is upon artificials and the elements of the atmosphere and the soil alone, is less this year than last, and as the soil of his farm is nearly uniform in character, and always treated alike, I consider it the best testing occupation in the kingdom as to the average produce of the seasons.

1871 Mr. Prout sold by public auction 350 acres of wheat at £14 8s. 2d. per acre; this year, on the 7th of August, when wheat was dearer per bushel, he sold the same quantity under similar conditions, and only realised £11 1s. 4d. an acre—or £3 6s. less than in 1871. If this

difference in price is converted into bushels it shows a deficiency of 9 bushels an acre. Allowing one bushel per acre to meet the extra expense and trouble of labour this year over last, 8 bushels are left to represent a general deficiency in his case of this year's crop over the very indifferent crop of the last; and yet Mr. Lawes makes out the reverse to be the case, which for the sake of rent-paying tenants and rent-receiving landlords, I wish may turn out to be true.

Now, as to the effect of dung in competition with artificials. The following returns, which have appeared in the agricultural papers, show that dung left a profit over cost of £1 6s. 11d., guano of 5s. 5d., and that superphosphate of lime made a loss of £2 7s. 8d. per acre. The nitrate of soda, as shown below, gives the greatest profit when sown in spring, but as it, unlike dung, leaves nothing in the soil for succeeding crops, but rather stimulates its productive powers to excess, and leaves them comparatively prostrate, I do not think the profit to a continuing tenant equal to that derived from dung.

MANURES.	Grain per acre.	Straw per acre.	VALUES.				Compared with no manure.	
			Grain.	Straw.	Totals.	Cost of manure deducted.	Gain.	Loss.
			£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Nitrate of soda in spring	Bushels. 39 1-5	Cwts. 42 $\frac{1}{4}$	13 6 1	3 3 4	16 9 5	12 19 5	3 11 4	—
1a. Nitrate of soda in autumn	32	27	11 1 2	2 0 6	13 1 8	9 11 8	0 3 7	—
2. Dung	33	40	11 5 4	3 0 2	14 5 6	10 15 0	1 6 11	—
3. Guano	31 $\frac{1}{2}$	29	11 0 0	2 3 6	13 3 6	9 13 6	0 5 5	—
4. Superphosphate of lime	27	22	8 17 5	1 13 0	10 10 5	7 0 5	—	2 7 8
5. No manure	22 $\frac{1}{2}$	23 $\frac{1}{4}$	7 2 6	1 15 7	9 8 1	9 8 1	—	—

The next case I am authorised by the agent for the estate to name is that of a tenant farmer in Lincolnshire, occupying over 1,000 acres of land, and he states that last spring he applied to separate parts of a field of 100 acres of wheat guano, nitrate of soda, and superphosphate of lime, in competition with dung and no dressing whatever, and at harvest time he carefully examined the crop, and could not distinguish any difference between that which had been dressed and that which had not. So much for artificial dressings in wet seasons. As to their non-effect in droughty seasons, Mr. Lawes himself, in a circular in my possession, says, in substance, of

THE RESULT OF WHEAT EXPERIMENTS IN 1872 AT BELSTEAD HALL, IPSWICH,
BY H. F. & A. HARWOOD.

1868: "It has militated against artificial manures, and lessened their consumption." And no wonder, for few who purchased them, as I did, could see where they went.

Dung, on the contrary, is never out of place in any season, and remains in the soil until consumed by the plants. It, and it alone, produces perfect development in plants, and can compete successfully with virgin soils. Anyone who can manufacture it as they do other mixtures will have discovered the Philosopher's Stone, and may rely on a demand as certain as it would be unlimited. If nothing had failed farmers this year more than honest dung, it would not, as I take it to be for many of them, one of the most disastrous years that have occurred in my time, and we should not be so near the brink of dear bread as well as dear beef and mutton.

I am, sir, your obedient servant,
THOS. C. SCOTT.

19, King's Arms-yard, Moorgate-street, Sept. 28.

TENANT-RIGHT.

At the meeting of the Cheshire Chamber of Agriculture last week at Crewe, Lord Egerton of Tatton in the chair, Mr. R. DUTTON read the following paper:

My lord, allow me to alter the title of my subject. Instead of "Unexhausted Improvements" I prefer saying "Improvements from which the tenant-farmer has not received a proportionate benefit." All improvements are more of less permanent, and it would be manifestly unfair to ask the landowner to compensate for improvements for which the tenant may have been amply repaid. The subject has for years engaged my attention, but it is so mixed up with other questions relating to land that I find it difficult to state my views without touching on other questions, some of which have already been discussed at this Chamber. The subject has two sides, and to treat it justly both should be viewed in conjunction—the tenant's side and the landlord's. Most frequently the former is principally referred to, and the latter thrown into the shade. When this broad view is taken and the balance struck the result may be right, but I am quite sure it will not be what is sometimes expected. The owner and occupier of land have both duties and obligations due to society at large, and a right statement of these is necessary as the first step in considering this question. I am quite willing to concede to the owner of the soil all the rights of ownership which the State recognises in reference to all class of property that may be placed upon it. Individual interests and inclinations must never stand in the way of the public good. If I am right in this view, it seems to me that the general public have a deep interest in this question. The supply of food for our ever increasing population is becoming so serious that not only a sense of public duty but a consideration of our own interest should lead all of us to consider the ownership and occupation of land with less selfish views than we have hitherto done. The application both of capital and skill to the cultivation of the soil is every year becoming more necessary, and the tenant looks, and most properly so, for due protection for such capital and skill, and to be guarded against those cases which do sometimes occur, arising from his farm passing into other hands, or some personal disagreement between himself and his landlord, or, what is perhaps the commonest source, his farm becoming stocked with animals of which he is not the owner, and for whose keep he receives not the slightest return. The landlord has a right to be protected against a system of cultivation which is most profitable for a time, but which ultimately leaves the land considerably impoverished; and likewise from the consequences which result from the unforeseen events of human life. What is called "the custom of the country" goes a good way in some of our English counties; but as these customs vary very much in different districts, and we have no custom in Cheshire but what is rather against the tenant-farmer than in his favour, it is most important to put the whole question on a more satisfactory basis. I have sometimes thought it would be desirable to have a short Act of Parliament giving the tenant-farmer a right to compensation under certain circumstances, but at the same time giving the owner a legal claim against the tenant for bad cultivation or neglect of duty; the question as between owner and occupier to be settled by

arbitration. I know there are difficulties in framing such an enactment, but I don't think they are insurmountable. Having no such law, what is the next best way of dealing with the subject? I observe, first, that the landowner, though reserving to himself the game and rabbits, ought not (except under such stringent restrictions as may be necessary to protect the interests of his tenants) to let the game to another, who may stock the farm and consume the produce raised by the skill and capital of the farmer without the slightest compensation. If wild animals are to be kept by the tenant-farmer beyond what every farmer would most willingly do to meet the reasonable wishes of his landlord, I am sure there is not a member of this Chamber but will agree with me when I say that the tenant is entitled to the fullest compensation for the loss he sustains. I may be told that this is beside the subject of my paper. I don't think it is, as I know no greater hindrance to successful cultivation than the loss sustained by undue multiplication of ground game. I observe, secondly, that the cultivator of the soil should be permitted to put all the produce of his farm to that purpose which will be most remunerative to himself. The old practice of requiring all the hay, straw, and root crops, except a small quantity of potatoes, to be consumed on the premises, is not only a great loss to the farmer but contrary to the interests of the public. The great risks connected with farming arising from unfavourable seasons, the prevalence of disease amongst cattle, and the scarcity and advancing price of labour, all combine to enforce the old maxim, *thrt* "it is most unwise to have all our eggs in one basket." I observe, thirdly, that every agreement under which land is held should contain provision for compensation. I am sorry to say many farms are let without any agreement, or one of no legal value. Many agreements are signed by tenants who never intend to keep them; and when pressure is brought to bear upon them, complain of being very ill-used. It cannot be too strongly stated that whoever undertakes to observe certain covenants, as an honest man is bound to keep them or take the consequences; and if he will spend his capital without protection, he has no more right to complain of the consequences than the man who lends money on bad security. The following clause, which is introduced in many agreements, is a great improvement, and very largely meets what is at present a just cause of complaint: "If during the tenancy any permanent improvement be made by the tenant either in draining, bone dust applied to the pasture land, eradication of old fences and planting new ones, filling up pits, and any other improvement, for which the tenant may obtain a certificate from his landlord or agent (which certificate shall specify the cost of such improvements), compensation shall be made after the following scale: Draining (if done to the satisfaction of the owner), one-tenth less than the original cost for every year the tenancy continues after the work is done; eradicating old fences and planting new ones, after the same scale; filling up unnecessary pits, the same; bone dust applied to pasture land (and subsequently neither ploughed nor mown) at the rate of 10 cwt. per statute acre, one-eighth less than the original cost for each year the tenancy continues after its application; oil-cake used during the last year of the tenancy, for which vouchers shall be produced, one-third less than the original cost, all hay and straw left on the premises to be taken by the incoming tenant at two-thirds its market value; all clover or grass seeds (not pastured except by sheep) to be paid for by the incoming tenant according to their value, such value to be settled by arbitration." Having thus stated what seems to me just and fair compensation to the tenant, allow me before closing a few words in reference to the claims of the landowner. We all know the usual covenants as to good husbandry, repairs of house and building, keeping up fences, gates, and stiles, cleaning out ditches, &c. The landlord's claim for compensation in case of these being neglected is as just as the tenant's, and claims made by the latter should be subject to set-off established by the former; the claim of the landowner to be settled by arbitration. Before closing my paper, a word or two on the proper tribunal before which points in dispute that cannot be settled by arbitration should be brought. I see no practical difficulty to having in each county agricultural courts of conciliation, composed of an equal number of landowners and tenant-farmers. The practical difficulty exists in fixing by whom these parties should be nominated. If we are not prepared for this, I see no difficulty in chambers of agriculture, through their council, appointing a small committee composed as above, who might act as arbi-

trators in matters of dispute between owners and occupiers when both are members of the Chamber. And in the case of any others who might solicit their assistance, such a tribunal would be far better than the ordinary tribunals before which such cases are generally taken. I have thus given you my thoughts on a subject of very great importance, and if in the discussion that follows a more satisfactory solution should be propounded, no one in the room will be better pleased than myself. Before closing, allow me to refer to an objection which may be started to the compensation claims I have named; that they might impose upon the owner of the land liabilities that would in many cases be very difficult to meet. The amount of such claims would have to be paid by the incoming tenant, inasmuch as he would be the person deriving the benefit. But it may be urged that the payment would seriously absorb the capital of the tenant. If this would have the tendency to diminish the competition for farms, I am inclined to think it would be no loss to agriculturists generally. In some agreements the claim is limited to a year's rent, in others to three-fourths of that amount. Some may be surprised that I have made no reference to farm leases as forming a basis for compensation. The reason is that, in my opinion, leases for long terms are only desirable in special cases, and even then clauses such as I have referred to are necessary to protect both landlord and tenant, unless it is mutually understood that the tenant shall have an opportunity to undo at the close all the good he has done at the commencement, which, I am sorry to say, is not unfrequently the case. In some instances that have come under my observation the claim to compensation is only allowed if the tenant receives notice from his landlord; it will be perceived I propose to give it whenever the tenancy closes by either party giving the notice. I have a case present to my mind now where circumstances render it desirable to the tenant to close his agreement; and he is holding on, because if he gives notice his claim is forfeited, and the result is likely to be advantageous to neither side. But the most serious inconvenience is when the tenant is removed by death, leaving no one qualified to succeed him. I ought to apologise for the time I have taken, as in my opinion the shorter these papers are the better, as they are intended rather to break the ground and open the way for discussion by suggesting topics than to follow out into detail what may be necessary to render any scheme complete.

The CHAIRMAN was glad to hear the subject brought forward in such a way, taking what might be called the tenant's point of view, for although, as Mr. Dutton said, there were two sides to it, the interests of landlord and tenant were identical. The subject was not a novel one to him (Lord Egerton), for upwards of a quarter of a century ago he sat on a committee of the House of Commons, presided over by his friend Mr. Pusey, who had under consideration the agricultural customs of different counties. It fell to his (Lord Egerton's) lot to bring forward two successive sessions a bill for the compensation of tenants for unexhausted improvements, but they were unfortunately not able to persuade the House to agree to it. It was rather singular that the principal opposition came from the Lincolnshire farmers, led by his right hon. friend Mr. Nesbit Hamilton, the ground of the opposition being that in that county it was the custom to give compensation for unexhausted improvements; while the other part of the opposition came from the Sussex farmers, among whom it was customary for the incoming tenant to pay the outgoing tenant two years' rent. Consequently, between two stools they fell to the ground, it being considered, by the opposition that law would over-ride custom. When he was managing his father's estate he found that when the leases came towards a termination the land was in bad condition, and it ended in his having to buy up several farms in order to preserve them from being perfectly ruined. He agreed that where there were no leases compensation for improvements from which the tenant-farmers had not received benefit should be given. But there would be great difficulty in introducing a law for that purpose. If such a law were passed, as they could not provide against every emergency, they must leave it as elastic as possible, and courts of arbitration constituted out of chambers of agriculture or kindred associations should decide when disputes arose. In the present day, particularly in that county, where they were in the neighbourhood of large manufacturing towns, special covenants were very inconvenient. It was very unadvisable to tie down tenants by covenants to keep their hay and straw when they could take it to a good market

and bring back manure. They had heard all sorts of panaceas for providing sufficient food for the people, and small farms had been suggested. On the other hand they were told that large capital was required, and the consequence of that was that they must have large farms. For himself he should be sorry to see a system introduced of breaking-up small farms and making large ones. Of one thing he was certain, that unless they created and maintained good feeling between landlord and tenant, any laws which they might pass would have little effect in promoting the general good of the country and the supplying of food for the people. With respect to any legal enactment, he for one should be happy to give his assistance in carrying through any measure which he thought would be of practical benefit, but if any bill of that kind was to succeed it must be of an elastic nature.

Mr. G. WILLIS said, as they had heard something on the side of the landlords, and there was an evident backwardness on the part of the tenant-farmers to come forward, he would venture to make one or two remarks. The land question, in its varied aspects, was receiving a great amount of attention by the public generally, and, he thought he might venture to say, the very grave consideration of tenant-farmers and owners of the soil. True, there were some theories cropping up in connection with the subject which some were pleased to designate Utopian, but that branch of it which had been introduced was of the very greatest interest and importance, not only to tenant-farmers but to every consumer of agricultural produce. For his own part, after careful reflection, he was disposed to think that there were several things in connection with landed property and the hiring and letting of the same for cultivation which would not bear the test of modern investigation and discussion. And in what he might say he begged that it would be understood that he was not at all prejudiced against landlords as a class; on the contrary, he felt free to say that, as tenant-farmers, they entertained for the landlords of Cheshire the greatest possible respect, as they could rely upon the word of some of them with the greatest confidence. But, unfortunately, they had in this county, as in all other counties, landlords and landlords, land agents and land agents—bad as well as good of each class—men who by their arbitrary conduct gave room for the demonstration of the fact that

All privilege and profit from the land
Rest completely in the owner's hand;
Accorded, changed, withheld at his command.

Against the perpetuation of such a state of things tenant-farmers were driven to the necessity of entering their united and decided protest. The pursuit of agriculture in this county, as in some other counties of England fifteen years ago, was, he believed, more certain and remunerative and less speculative as to its results than it was at the present time. Labour and coals had doubled its value, rates and taxes were almost intolerable, and the increase of cattle-diseases of the most virulent and contagious character were continually affecting and decimating their flocks and herds, to such an extent that in the month of September last their losses were estimated at not less than £15,000 per week; so that, under these altered circumstances, they could not be accused of great extravagance or revolutionary projects if they asked the Government to grant them protection, not against landlords, but the caprice and cupidity of those who might otherwise be somewhat unscrupulous, and disposed to take advantage of improvements affected at the expense of their tenants, to their utter ruin and to the nation's loss. In order that they might come to some understanding on this point, he thought it was very essential that they should discuss the question in their chambers of agriculture as they were doing that morning. He was very pleased to see that Lord Derby, in an excellent speech he gave on Saturday before the Lancashire Farmers' Club and Chamber of Agriculture, at Preston, stated it as his opinion that where a yearly tenancy existed, which was almost universally the case in Cheshire, the question of compensation for unexhausted improvements was a very fair one to raise; and yet there were men in the country whom he (the speaker) had met with occasionally, who were disposed to give advice similar to that which Mr. Masfen, of Staffordshire, gave the Central Chamber of Agriculture, that they should see what could be done by voluntary arrangement, rather than to appeal to Parliament for legislative interference. For his own part, he (the speaker) thought that the system of voluntary arrangement, if it could be called such, had been upon its trial long enough, and the result had not been at all satisfactory. In a very able paper,

read by Mr. Horley before the Warwickshire Chamber of Agriculture in January last, reference was made to that committee of which his lordship was a member, and the 13th clause of the bill, as to compensation for unexhausted improvements, ran thus: "That the improvements above mentioned, which are very generally required throughout the country, in order to develop the full powers of the soil, are greatly promoted by this system of compensation, and therefore it is highly important that all difficulties should be removed which stand in the way of extension by the voluntary act of landlords and tenants." But in direct opposition to the opinion of the majority of the witnesses, who consisted of fifty landowners and farmers from about forty different counties, the committee thought fit to deprecate legislative intervention, as the 14th clause said that any attempt to make its general introduction compulsory would be met with great practical difficulties, and in the absence of any system, the committee relied on mutual arrangements between landlords and tenants. Mr. Horley, commenting upon that, said that twenty-four years had passed away, and, notwithstanding the recommendation of the voluntary system of compensation for unexhausted improvements, it had not extended, at least to any appreciable degree. He stated also that the good understanding between owners and occupiers, which was so desirable, was more general in Lincolnshire, where this system had long been the custom, than in any other country. For his own part, he (the speaker) was disposed to think that it was useless to attempt to rely on voluntary arrangements or mutual understanding without legislative interference, and that the time had come when tenant-farmers should give no uncertain sound upon the subject. Let it be distinctly understood that it was desirable, if they were to farm the land of this country in such a manner as would be beneficial not only to themselves and their landlords but the community at large, that they should have legal protection for improvements effected upon their farms, for which they received no proportionate benefit.

Mr. BROUGHTON thought the gentleman who had just spoken could not know the county of Cheshire, because he (the speaker) did not think any tenant left a farm without compensation being given him. At all events he could speak for several large estates covering 40,000 or 50,000 acres, and was quite certain that in every agreement a clause was put in that the tenant should have compensation for unexhausted improvements. With regard to notice, the difficulty which generally arose was in the case of tenants for life who were not able to bind their successors, and therefore he would suggest that a short Act of Parliament might be passed so that a tenant for life might be able to bind his successor in carrying out any compensation clause inserted in the agreement, provided the improvement was declared to be permanent by someone appointed by the Board of Trade. In taking land for railways, if the arbitrators differed, a referee was appointed by the Board of Trade, who had in their service a number of the best agriculturists in England. He could not see what injury could be done to the reversion of an estate by putting this within the power of a tenant for life, as there was often a difficulty in pointing out what compensation should be given which might be obviated if, as he suggested, it was fixed by an agreement. As to the filling up of pits, he thought it was almost detrimental. The money that it cost to fill up an old marl pit, perhaps £200, would be better spent in draining or boning. One suggestion, which was seldom acted upon, would be a great improvement. Of late years oilcake had been largely used both upon the land and in the shippens. From fifteen to twenty years ago that was not the case, and therefore he thought there should be compensation to any tenant using it, though it would be difficult to go upon a two years' purchase as a fixed principle. Still the quality of the land was very much improved by the eating off of oilcake, and supposing a tenant bought £200 worth of oilcake and ate it off upon the land instead of £200 of bone dust, compensation should be given. With these few exceptions he did not see any difficulty that could not be got over by a simple contract without legislative interference. If the land agent was an efficient and able person, he would not refuse the tenant the liberty of selling his hay and straw, so long as he brought back manure in the place of it.

Mr. DUTTON said in reference to oilcake, he would take the Lincolnshire custom, only differing from that by giving compensation for what was consumed on the land as well as in the yard.

Mr. LATHAM was perfectly convinced that without the interference of the legislature the tenant-farmer would never be in a safe position as regarded his land. He agreed with Mr. Broughton when he said that on large estates the tenants were perfectly safe, but it was for this reason, that public opinion would tell against a large landowner who was constantly dealing in a dishonest way by his tenants, and besides it would not be worth the while of a man with many thousands a-year to obtain a slightly increased income at the expense of getting indifferent tenants. Better be moderately paid than be exposed to the risk of sudden and frequent changes; but upon owners of two or three farms public opinion had no effect, and they did not care so long as they got an increased rent of ten or fifteen per cent. Mr. Broughton said he did not know that any tenant had ground for complaining that compensation had not been made to him. He (Mr. Latham) would tell them what happened within a very short distance of his own house. The tenant had greatly improved his farm by boning and draining, and the landlord on coming to see it expressed the opinion that the tenant was making a very big cheese for his rent, and so took away thirty acres. The consequence was the man quitted the farm and went to another, without receiving a penny compensation. Was that a case for compensation or was it not?

The Hon. WILBRAHAM EGERTON: Had he an agreement?

Mr. LATHAM: No. Tenant farmers might be able to trust the landlords of large estates, but for small farms he believed they must have legislative authority, so that when a man was turned out of his holding he could claim compensation. There was another question which had not been started. How about a man improving without the consent of his landlord? There were landlords who considered rushes useful, and an undrained farm better than a drained one. Mr. Dutton had maintained, and he (Mr. Latham) agreed with it, that there was not only the landlord and tenant, but the common weal to be considered—how far a farm could be made to produce an adequate quantity of food for the use of the people. The landlord would not improve; the tenant wanted to improve; the landlord would not consent; the tenant made improvements. Should he be paid or should he not? It was quite plain if the landlord said, "Improve at your own risk," and the tenant did anything with his eyes open, he would be entitled to no commiseration; but then the public stepped in and said, "This land should not be allowed to lie idle," and he held that, supposing a tenant had an unimproved farm, he should have the right, before he improved it, to go to the Enclosure Commissioners or some other public body and say, "I propose to borrow a sum of money and lay it out upon my land and repay the capital and interest by instalments during my term of occupation, and my successor will continue them." A man in such circumstances should have the same power as a tenant for life, who would do so. The land should not be allowed to lie idle, in a state in which it would produce a less quantity of food than it might do but for the obstinacy and stupidity of the landlord. First of all, then, they must have legislative sanction somehow. He could imagine a court of arbitration established, not by a chamber of agriculture, because that would only be a voluntary one, but by Act of Parliament, to be appointed by court of Quarter Sessions, or the judge of assize, who should have the power to appoint arbitrators in every case where a man claimed compensation. He agreed with the president that the interests of landlord and tenant were identical, except in the letting and taking of a farm, where their interests were totally opposite. It was the business of the landlord to get as much as he could, and the business of the tenant to get the farm as cheap as he could. Therefore, he did not think they could hope for anything from a supposed identity of interest in letting and taking, and held that there should be some court of arbitration, to which, after the bargain was made and any dispute arose, matters could be referred, and that court should be settled by law. They must remember that after all, the difficulty was that if a farm was vacant there were fifty persons ready to take it, whereas if landlords were more plentiful tenants would have it more in their own power to say what the terms of the agreement should be.

The CHAIRMAN maintained that in the matter of letting a farm the interests of landlord and tenant were identical, for landlords did not do here as in Scotland—let a farm to the highest bidder; that would be contrary to all rules of political economy and common sense. He did not believe that the principle acted upon on large estates was to get the highest

rent, but that it was rather to get what was fair, and secure a good tenant.

Mr. BROUGHTON said in the instance which Mr. Latham had given there was no contract, and if a tenant was such a fool as to take a farm without a contract he deserved to have legislative interference, and the simplest way, if there was to be arbitrators, would be to refer disputes to the Board of Trade and let them nominate arbitrators. He knew of an instance of a tenant not a hundred miles from there claiming compensation, and the claim was tried in a county court, when the landlord's agent attempted to set off dilapidations and deteriorations, the result being that the tenant's lawyer objected to the set-off, and it was disallowed. Lord Crewe was mulcted in £200, and as the man was put through the Bankruptcy Court afterwards, his lordship was unable to recover against him.

The Hon. WILBRAHAM EGERTON then moved a resolution which had been partly discussed in the Central Chamber and adjourned to get the opinions of the county chamber upon it. He moved—"That this chamber considers it necessary for the proper security of capital engaged in husbandry, that an out-going tenant should be entitled to compensation from his landlord, or the incoming tenant, for improvements he has made with the previous consent of the owner, and from which he has received no proportionate benefit with respect to drainage and other improvements of a permanent character, and that the landlord should be paid by the outgoing tenant for dilapidations and deteriorations caused by the neglect of the tenant, the amounts respectively due to be determined by valuation." The terms of this might seem rather vague, but he thought they should not define too strictly the actual relations of landlord and tenant, particularly when they became the subject for legislative interference. He was not prepared to say that a case was made out. No doubt there were exceptional cases, but laws were not made for such, and the question was how far the general practice of the country required to be legislated upon. He was not prepared to pledge himself in favour of it, but at the same time he would not say that legislation was not necessary to the extent indicated by Mr. Broughton. After all it was a question of landlord and tenant, and he imagined that if all tenants were as sharp as Mr. Latham they would not invest their capital without some agreement. He (the hon. member) did not suppose that there was any landlord who would not give security to a tenant who had capital and was going to lay it out on his farm; but he differed from Mr. Latham in what he said about a tenant draining his farm whether the landlord wished it or not. The latter might have some opinion of his own as to deep or shallow draining, or the tenant might carry out a system of drainage which would be ruinous rather than otherwise. If the tenant did such works at his own risk it would be an interference with the rights of the landlord which the legislature could never sanction. There were limits to interference with the rights of private property, because if the whole of the country was to be farmed in a way in which some people thought it would supply the greatest amount of food, there would be a number of small farms, and to that he was sure certain tenant-farmers of that county would never agree.

Mr. J. SLATER was in favour of legislative interference, and thought that a great deal was not done on farms which would be done if tenants had better security for their outlay. Sometimes landlords, the best of them, died, estates were sold and came into possession of new landlords who considered they bought farms and their improvements, which was legally true. In some cases where there were agreements they were of a most shameful nature, and sometimes signed by tenants who did not know the full purport of them before they got on the farms. A farmer came to him some time ago saying that he had spent a great deal of money on his farm but he was obliged to leave, and he asked what compensation he could claim for bone dust. He was considerably astonished, and thought he was misinformed when told he was at the mercy of the landlord. The result was that he did not get a penny. Having given other cases of a similar character, Mr. Slater said that everybody cried out against the farmers because the land did not produce sufficient food, and knew no different until it was explained to them that there was no legal authority by which they could claim for unexhausted improvements, and not sufficient encouragement given them to improve the soil. He thought there should be some change, for while every other interest was moving forward that of agriculture was at a standstill.

Mr. LATHAM wished to add the following words as a rider at the end of the resolution: "And that where no contract or agreement exists, the amount payable on either side should be capable of being enforced by arbitration." He quite agreed with Mr. Broughton that, if the landlord and tenant chose to agree as to what compensation should be paid, that it would put the matter outside the pale of the law, but where no bargain was made and a dispute arose some court or other should settle it. He could not agree with the hon. member that there should be no law for exceptional cases, because he was happy to think that in England murder was exceptional, robbery was exceptional, and it was exceptional cases they were to legislate for.

The rider having been accepted by the mover of the resolution,

Lord DE TABLEY seconded it. He thought that on most well-regulated estates legislative interference was unnecessary, but there were exceptions of injustice to the tenants, and it was their duty to provide against those exceptions. As to the custom of the country, there was none in Cheshire, and therefore he thought that some interference was necessary, more especially in regard to tenants for life binding their successors in the matter of compensation.

Mr. DUTTON replied: He could not endorse what had been said about a tenant improving without the consent of his landlord, as there were some landlords entertained peculiar opinions, and thought rushes very admirable, and he did not think the legislature should step in and say they should not have rushes. Then he thought that they should not expect the legislature to interfere between landlords and tenants who made bad bargains such as Mr. Slater had referred to.

After a few words from Mr. DAVIES, of Eardswick, on the increased value of the freehold being a sufficient compensation to a landlord without raising the rent of a farm, the resolution was put and carried unanimously, and the secretary was directed to transmit it to the Central Chamber of Agriculture for further discussion in November.

Votes of thanks were moved to the reader of the paper, and the President.

THE LLANBOIDY AGRICULTURAL SHOW.

It was known that the competition for the champion prizes would take place here; but the competition provoked less excitement than had been anticipated. It is certain that if the show had been held at Carmarthen there would have been greater enthusiasm. Still, it was stated at Llanboidy that the competition for the champion prizes had been better than would have occurred at Carmarthen. The £50 obtained for the champion prizes was divided as follows: First prize for aged bulls, £20; second, £5. First prize for two-year-olds, £20; second, £5. All the animals entered were not on the ground. Better specimens of the black breed than those which did put in an appearance, in all likelihood were never seen in South Wales. The judges were not long in awarding to Mr. Jenkins, of Glanwern, the blue ribbon for Aeronian, also a winner at Cardiff. There were some of the spectators on the ground who dissented from the award of the judges; and one old farmer vehemently contended that Mr. Philipps, of Carleon, who took the second prize for aged bulls, had not fairly been beaten. Aeronian's back was straight and broad; his build large; and he carried a lot of beef. The ownership of Aeronian has changed, Mr. Bowen, of Llwyngwair, having bought the bull before he was removed from the field, as Mr. Bowen is resolved to improve the blacks. The bull belonging to Mr. Philipps, of Carleon which carried off the second aged champion prize, had been brought into pretty good condition, and exhibited fair quality, his skin being tolerably soft and flexible. Certainly his condition was better than his rival from Dyffryn-y-nogon, whose owner must have largely relied on massive build. In the two-year-old champion class Mr. Davies, of Henllan, easily won. Mr. Bowen, of Llwyngwair, was among his opponents, and furnished by his young Castlemartin an illustration of what good feeding can do towards improving and expanding an animal. As a whole the competition was a little more lively for the two-year-old than the aged champion prizes, and it was a subject for remark that Mr. Bowen, of Llwyngwair, who is known to be a zealous patron of the blacks, had been eclipsed.

TENANT-RIGHT.

At a meeting of the East Kent Chamber of Agriculture, in Canterbury, the Hon. G. W. Milles, M.P., presiding,

The CHAIRMAN said, by the 13th clause of the Rules of the Chamber they were required to hold two meetings in the year besides the general meeting, and accordingly, though at a somewhat inconvenient time of year, as they had not already held either of those two meetings, he had taken the liberty of calling them together, particularly as his friend Mr. Hodges had undertaken to read a paper on compensation for unexhausted improvements. This was a most important, yet a very simple question. It involved nothing more than a mutual agreement between landlord and tenant. If the landlord and tenant were men of generous ideas they would mutually agree to work for each other's benefit. They would do so for the advantage of both. Let the agreements or leases be drawn up carefully and with due regard to the interest of both landlord and tenant, and he might confidently express his opinion that no futile results would be produced.

Mr. BASIL HODGES said he was aware that this question was an important one, and that considerable responsibility rested upon any individual who pressed forward a change, particularly when change was proposed in the existing relations between landlord and tenant in a county like Kent, where as a rule all those relations were carried on in an honourable and liberal manner. But, nevertheless, since the course of things changed, and the outlay of the tenant's capital had become so considerable, and it was so highly advantageous to the interests of the community that the tenant should be encouraged to exert himself to the utmost, it had appeared that a better working agreement might be drawn up that might further those objects. It would depend entirely upon the meeting whether a resolution in favour of his arguments should be passed, but he had to propose the following: "That, in the opinion of this Chamber, in all hiring of land where the tenure is from year to year the extra outlay in corn and cake fed or manures put and used on the land by the tenant during the last two years should be secured to him by an improved method of valuation, so that he might be encouraged to cultivate the land he occupies up to the end of his tenancy in the best possible manner." He was perfectly aware that under the existing system agriculture had made great progress, but still it did not occupy that position which it ought to do. It had been subjected to the reproach that of all the great industries of the country it was the only one that was not conducted on commercial principles. For his own part, he did not think commercial principles would produce better results than the present system, but they might safely make changes without a complete departure from old lines and landmarks. They might form agreements which would enable tenants to continue their improvements during the last few years of their tenancy as in previous years. He did not see that, under proper arrangements, any injury would follow to the incoming tenant if he had to pay for so much of those improvements as remained unexhausted. The art of valuation had been brought to so high a degree of exactness that the value of such improvements could be very nearly ascertained. This, and the circumstance that changes of tenure in this part of the country were not frequent, and the characters of men holding land were pretty well known, would, he believed, obviate the abuse of the system as carried out in some other counties, where unprincipled men were in the habit of going from farm to farm, leaving them worse than they found them, and making a profit through the valuation. There was a wide difference, however, between such cases and such a new agreement as he hoped the chamber would adopt. After mentioning instances in support of his argument as to the lasting value of genuine improvements in the tillage and quality of soil, Mr. Hodges went on to consider the question not merely from a personal, but a national point of view. He held it to be the duty of landowners and landholders to do their best to provide for the wants of the nation. He did not suppose they could make all men good farmers by securing to them the fruits of good farming, but they might give some impetus

in that direction by securing to farmers the result of their skill and labour. The question he was bringing under their notice was not a new one. He could produce very high authorities in support of his argument. Mr. Pusey, late P.R.A.S., in 1842 expressed his opinion that the question was most important to landlords, and that some improvement in the agreements in this respect was a condition *sine qua non* of any steady and general improvement of the soil and its cultivation. Caird also, in his work on English agriculture, held that, as an inducement to good farming a tenant "must either be secured in the possession of his farm for a certain period sufficiently long to enable him to receive the benefits of his investment, or have some precise agreement under which he is to be repaid, in fixed proportions, for his outlay if his landlord should see fit to resume possession of the farm." In quoting this opinion of Caird, however, he must also remark that Caird did not pronounce in favour of compensation for improvements, but of leases, though his objections to the former were based on corruptions and abuses which had arisen in some counties where that custom prevailed, but which under an improved system properly administered need never arise. This Chamber took, as was well known, a leading position in agricultural matters, and he was very desirous that the question should be fully discussed in it. There could be no doubt that in many cases land would be greatly and permanently improved under such a system, particularly in the case of poor land, which under existing conditions offered no inducement for the investment of capital, and was therefore chiefly in the hands of small farmers. That disadvantage might, no doubt, be obviated by leases, but in many cases landlords seemed unwilling to part with the possession of their land for a long period of years. They would perceive that the resolution which he had proposed was so drawn as to apply to those lands only where the notice to quit was so short as to afford the tenant no time to recoup himself for his outlay in still unexhausted improvements. He had himself no personal grievance to ventilate, having, on the contrary, had every opportunity of carrying on the cultivation of his land with profit to himself. He also was pleased to acknowledge that as a rule the landlords in East Kent were among the very best in the country, yet there were various contingencies that would arise, such as death, sales by auction, and other circumstances. For these reasons, at any rate, it seemed to him that the question was well worthy of the consideration of the Chamber. He had not any desire whatever to weaken in any degree the bond of sympathy between landlords and tenants—on the contrary, he regarded that bond as most important, and material advantages would be dearly purchased at the cost of that sympathy—but he considered that an arrangement of the kind he advocated would tend to confirm and strengthen it. He did not wish to promote any agitation against landlords. Nothing was asked from them but to offer advantages to an enterprising man to lay out more money on the land. He therefore left the question with confidence in the hands of the Chamber.

Mr. F. NEAME believed that most of the gentlemen present would agree with Mr. Hodges on many points; the only question on which they would differ from him was with respect to compensation to tenants. He considered that the compensation for unexhausted improvements was a question between landlord and tenant, and one upon which legislation was not desirable. He thought every one would agree that it was not fair that tenants should make permanent improvements without being repaid, but on the other hand the landlord should not be compelled to pay for improvements which he had never sanctioned. With respect to manure, he did not think the outgoing tenant should receive compensation unless such outlay was sanctioned by the landlord or the incoming tenant. He would suggest that instead of such a system the notice of six months now usual should be extended to twelve months. Such a notice would enable the outgoing tenant to make arrangements for the disposal of the manure. Twelve months' notice would be almost equal to a two years' lease, and would

give the tenant the benefit of two crops, whereas a six months' notice would only give him the benefit of one crop. He considered that a twelve months' notice would be a boon to the farmer who really farmed his land, while to the slovenly farmer it would not matter. He was in favour of giving an outgoing tenant the value of what was to be seen, and not of anything that could not be seen. He was decidedly opposed to the creation of a custom that would give an outgoing tenant the opportunity of imposing on his landlord and the incoming tenant. Confidence between landlord and tenant was far better than legislation. From his own experience he would much rather be a yearly tenant than a tenant on lease. In the case of a lease there was the certainty of a revision of rent every time the lease expired, while a yearly tenant might go on for forty or fifty years, and, unless something occurred to disturb existing relations, such as the death of the landlord, the property changing hands, &c., might continue throughout that term with no revision of rent. The less they sought for legislation the better, but at the same time, if the conditions of their holdings could be revised and made more liberal for the outgoing tenant, he quite agreed with Mr. Hodges that it would be to the benefit of the country at large.

Mr. G. DOWKER thought the essence of the question lay not so much between landlord and tenant as between the incoming and outgoing tenant, for in most cases of turning over land from one tenant to another the landlord merely took care that he got a respectable tenant and that the covenants were so arranged that his land should suffer no injury. With respect to the valuations, he did not see why the books of the outgoing tenant should not be taken to show the quantity of manure, &c., he had put upon the land, and the other means he had taken to improve it. Upon that matter he thought there was room for some improvement. He quite agreed with Mr. Neame that legislative interference was not desirable. But they must not think that when a man had farmed well for a great many years the next tenant who offered a higher rent did so because the outgoing tenant had farmed well. It was always the case that when one tenant went out there were plenty ready to come in.

Mr. J. DAY differed in some material points from previous speakers. Whilst they had all good landlords, good agents, and good tenants things would undoubtedly go on well enough. But they knew there were some of a different complexion, and it was chiefly with respect to those who were not ready to meet justly the tenants that the subject had been brought before the Chamber. There was in no class complete freedom from evil, and it was for this reason that he should urge somewhat strongly upon the Chamber the necessity for legislation in this matter. He believed that by no other means could they

obtain justice for all parties. It was a matter as much to be desired by landlords as tenants, and would tend to keep up the standard of cultivation and prevent it from ebbing and flowing in the manner it did under the present system. He firmly believed that compensating clauses would have a more beneficial effect in furthering the permanent improvement of the land than steam-cultivation or the various other great improvements in farming introduced of late. He was only very slightly interested in the question for himself, for he had not the least to say against his landlord, but he had studied the subject a good deal and felt very warmly upon it. He maintained that to be subject to six months' notice to quit placed a man in a false position, and was a hindrance to all good husbandry. He was opposed entirely to a tenant's having to ask that from his landlord which he ought to be able to claim as a right, and desired that all relations between landlord, tenant, and middleman should be on a sound commercial basis. He was prepared to go more strongly into the matter than the gentleman who introduced it, for it must be remembered that it would not materially affect those landlords who were willing to do justice to their tenantry, but there were many who would not do so unless they were compelled. He hoped his remarks would not give offence to anyone, but he spoke warmly, for he believed the matter would be greatly to the benefit of all concerned.

Mr. MANER had known farms the condition of which had varied as tenants went in and out, and which were now no better than they were forty years ago. He was in favour of making it compulsory to give twelve months' notice to quit, for without that there was no inducement to improve land.

Mr. COLEMAN expressed himself very much of Mr. Neame's opinion, that legislation was not needed, but that a twelve months' notice would be sufficient inducement to a tenant to improve the land. There was also much room for improvement in the drafting of leases, which needed to be suited to local circumstances. He did not believe any amount of legislation would change human nature, and it was not in human nature for a tenant to leave more behind him for the incoming tenant than he could possibly help.

The CHAIRMAN had to suggest that further discussion should be postponed till their next meeting. He was glad to say there had been no angry feeling on the matter, and, with the exception of Mr. Day, the speakers had been unanimous in deprecating legislative interference. He believed that feeling would be endorsed throughout the country. In his opinion it was entirely a question between landlord and tenant.

The adjournment was moved, seconded, and carried, as were also votes of thanks to the Chairman and to Mr. Hodges.

TENANT-RIGHT IN SCOTLAND.

At a meeting of the Gala Water Farmers' Club, Mr. RICHARD S. FRIER, of Cathpair, said:

So late as the middle, indeed nearly the end of the last century, agriculture may be said to have been in its infancy. The rotation of crops was scarcely understood. From careful observation an old farmer certainly knew potatoes after potatoes or wheat after wheat was not likely to meet with great success; but he did not know that a crop of potatoes delighted in an excess of potash, or that of wheat in an excess of magnesia, or that by the continued cropping of land certain quantities of particular mineral constituents were necessary to ensure a full crop. It is some time certainly since the great effects of ammonia were known, but it is only recently that the farmer knew that by its liberal application he might have abundance of straw and very little grain unless a due proportion of phosphates with the various alkalis were also present. A great proportion of the landed proprietors of this country have done little or nothing for the advancement of agriculture. Land as an investment is considered one of slow returns, as certainly it is; but the owners of land for the last forty years have assuredly no reason to complain. Landed property that was purchased at a fair market rate some forty years ago has in many instances, where money was judiciously invested in improvements, given

two or even three times the rents then current, and that often entirely from the expenditure of the tenant's own capital in drainage, in the use of extraneous manures, and foreign foods; so that these men, who probably bought their land to yield them three per cent., are now in the receipt of nine per cent. for their money. While many landlords discharge their duties as such in a most creditable manner, too many of them—and these, unfortunately, the largest entailed proprietors in the country—are utterly indifferent either to their property or the interests of their tenants, and leave the administration of their estates to parties from whom the only qualification asked or appreciated is that of being able and willing to extort the maximum immediate return which can be got out of the land. Much capital has, no doubt, been foolishly expended in consequence of the farmer on many estates knowing that at the end of 19 years he must either be prepared to give an extravagant increase of rent or quit his farm, and therefore his improvements are of a superficial and temporary nature. Millions of money have in this way been lost by the farmers of Scotland, and much by the proprietors themselves from the indifference of the latter. It is truth when I say that the cultivated land in this country is still not more than half-drained, and even much of that within a radius of ten miles of the two largest cities in Scotland. Many proprietors in

this country have dreamed away their opportunity. Those sensible men who have thrown out inducements for improving tenantry, for men of capital and intelligence, and who have invested the surplus capital accruing from their advanced rents in the necessary buildings, in the drainage and proper fencing of their estates, will now reap their reward. Many of those proprietors who have large landed estates on high situations, on account of the want of success and the appearance of exhaustion from its previous cropping in the last century, strictly prohibit their tenants from breaking them up; by doing so, they restrain the employment of the capital of others, and limit the agricultural population which they would naturally employ, forgetting that the advanced system of growing green crops, and the rearing and fattening of sheep upon these lands, would renew them to their pristine vigour by adding to their potash, their phosphates, and by bringing their latent vegetable and mineral constituents into play, thereby doubling their productions. Many proprietors of land have uniformly accepted the highest offers for their farms without regard to men or capital. These men will now suffer for their short-sighted policy. No sensible man will now, with an ordinary lease, begin the wholesale drainage of his land with his own capital unless he knows that he is dealing with men of strict integrity and honour. The value of drained land will now be better understood than ever, and from its enhanced value the undrained land will be many degrees less valuable. From the present and prospective change in the price of labour it is not at all improbable that much land in this country will ultimately go out of regular cultivation; but at any rate the rapid progress of advancement which has gone on for the last generation will now receive a check. Were we even able and willing to pay for the labour at its enhanced value, where are we to find it? There is, no doubt, plenty of work in draining, trenching, fencing, &c., for an agricultural male population of one-half more than there now is, but the bone and sinew of our country have left for the backwoods of America, there to till and plough for themselves, and to send their surplus grain to supply the deficiency of our own productions, when many of these men might have been profitably employed in draining and trenching in their native parishes, and that, too, since the effects of draining were well understood, and when labour could be had at one-half the price it now is. The agriculture of this country will now go slowly on till the inducements for emigration held out by the various colonies are lessened from the price of labour being better equalised with other parts of the world. The insecurity of capital invested in agriculture and the slow and inadequate returns derived from it, as compared with general investments in the commercial world, no doubt partly arises from the want of Tenant-Right, and also from the extremely unsatisfactory state of the game and other land laws, and must in some degree attract those who have money from the cultivation of the land, together with the great inducements held out by the various colonies and the ultimate large returns made in those countries where money is regularly and in most cases safely lent out at twelve to fifteen per cent. to those who have not adequate means of their own for the rapid improvement of their estates. Most farmers are at this day pushing their sons into other professions, from these causes, and from the circumstance of their being unable to afford them such sums as would enable them to stock respectable farms. The present state of the game and other land laws, and the clauses anent them which are inserted in almost all leases, is certainly discouraging and humiliating in many cases to the farmer. The least that can be said of it is, that it is unfair to extort the highest agricultural rent for land, and to burden the tenant with an overstock of game. Several of my friends who have large farms, the proprietors of which live at a distance, and have little or no interest in the Game-laws, have occasionally the kindness to give me a day's shooting. On these farms I find there is always a good stock of game with no appreciable damage to crops, and I hold that a fair and sufficient head of game can be kept up without any very apparent damage. With regard to rabbits, from whose devastations I have suffered largely, I should say the farmer who signs away his right to destroy them is more than foolish, as no valuation whatever can compensate him for the ravages of these vermin. I should be sorry to see the Game-laws entirely done away with, as, in my opinion, no Trespass Act would

suffice to prevent many people of indolent habits from leaving their legitimate occupations, and indulging in those pursuits that become doubly attractive when the gain they produce is added to the pleasure of the sport in obtaining it; and, moreover, I think that were these laws abrogated game would speedily be exterminated altogether. It is, however, absolutely necessary that all who pay an agricultural rent for land, and who keep these animals under the head of game, should have an equal right with the proprietor at any rate to the ground game, if not also to the winged. With a proper selection of men as tenants, I have every confidence that a fair stock of them would be kept up. The young farmer of former times did in many cases with little or no education, but the young farmer of the present day, and those looking forward to fill the places of their parents, must, or ought to, have a good and expensive education. To occupy the position of an intelligent agriculturist of the future, he ought to be well acquainted with the physiology of animal and vegetable life, by the production of which in the most cultivated forms he means to make his livelihood. He ought also to have a knowledge of the science of chemistry, and make himself acquainted with the geological features of the country, so that in looking out for a subject upon which to employ his capital, he may be able to tell at a glance what are its capabilities of improvement at least possible expense to himself, and that within a given time, and what are the leading and successful features of its cultivation—that is, what are really the legitimate and best adapted modes of cropping for its soil and climate and situation, with the various advantages and disadvantages in buildings, machinery, roads, water, coal, lime, and markets for its produce; and, looking to the great economy of labour, present and prospective, through the proper appliances of machinery, the farmer ought also to have such a knowledge as to be able to judge of implements and their mechanism; if he do not, he will likely throw away a large sum in the inaccurate application of capital. Though it is essentially necessary that the agriculturist of the present and future day should be able to deal liberally with whatever subject he has in hand, it is also of much consequence that a proper economy be exercised with a view to bring what capital he has to bear fruit as early as possible. It is well to understand the proper cultivation of the land, though the best of farmers with adverse seasons will be disappointed, even with the most sanguine and arduous endeavours. Many hard-working men are, however, “penny wise and pound foolish.” They will agree to pay several pounds of rent per acre for their land, for which they will purchase several pounds worth of foreign manures after having drained and probably limed it at a very considerable expense, but with a view of saving they will often plough the land wet and out of condition, and thereby reproduce the very acidity for which they had purchased the lime, and in a manner destroy the productive powers of the land for at least one rotation to come. Large sums have been expended by some in the purchase of steam engines with ploughs and other implements for the deep cultivation of the land. Since the introduction of these we hear of land being tilled to the depth of from fifteen to twenty inches. Deep ploughing is no doubt in many cases of great importance where it is done judiciously, and ultimately has a permanent effect in increasing the capital in the soil by enlarging its powers of filtration, &c.; but the man who thinks of cultivating his land in such a manner ought to consider, first, his capital in hand; second, the subsoil and strata with which he has to deal; and third, the length of time he is to have an interest as tenant in the land. The expense of cultivation is very much greater, and the quantity of manures for a time also requires to be considerably augmented, and in many cases the land will produce less for the first and often second rotations than it would have done with ordinary cultivation. I do not mean to condemn deep cultivation on certain classes of land, but a good close furrow of ten inches will, I maintain, give a better and quicker return for the capital expended than any additional depth that can be got, that is, if the condition of the land is efficiently kept up. From the high prices of lean stock and the small margin left for feeding it, as it is at present, we ought, perhaps, with our climate to breed even more than we do, and leave a larger part of the feeding to those who have lands and climate better adapted for it. No doubt so much bone phosphate, sulphur, &c., carried off every year with our lambs and wool would very soon deteriorate the condition of the land unless these

substances were largely supplied through the turnip crop; but in Cheshire we hear of grass lands, after having been brought so low as 14s. per acre, through the long persistence of dairy farming, being shortly revived and raised to the value of three pounds per acre through the liberal use of bone phosphates as a winter top-dressing. In this country, with our large flocks of sheep, we have an alternative, if we choose, by enriching the land through the animal by the use of extraneous foods. In the mixed husbandry of the country, including the breeding, rearing, and feeding of stock, the successful farmer requires a varied attainment of knowledge from experience, from constant attention and a watchful care over the health of all the animals with which he has to deal. The aim of the stockholder is always to make the quickest and largest returns, and with the high-class feeding he now

follows he must at a glance be able to tell whether or not his animals are making the proper advancement with the relative expense. In the use of extraneous manures, he must be able to tell what proportion of ammonia and phosphates is requisite with the condition of his land to produce certain crops; and in the use of foreign foods for the feeding of his stock, he must in the mixing of these and in the using of them as auxiliaries to his own, find the most economical at given prices, or what will produce the largest amount of flesh and fat at least cost to himself, always bearing in mind that if at the marketable value of the lean stock, and at the cost of his extraneous foods, with the price that he gets for his fat, he has at once a direct profit, he is adding 20 per cent. of his outlay to his capital in the soil by the residue left in the manure of the animals.

AGRICULTURAL IMPROVEMENT AND TENANT-RIGHT.

[Mr. Mechi sends us the following correspondence.]

A peer and owner of large estates writes as follows :

September 4, 1872.

I always read your letters with much pleasure, and with deep interest, and now trouble you with a few remarks, premising that with nearly all you recommend I strongly agree. With regard to over 8,000,000 acres in England and Wales of waste land, what would be the probable cost of bringing it to the state of culture you desire? Next, when this is ascertained, would it pay the cost? Thirdly, how many years' lease ought to be given to a tenant, or to a company, willing to undertake it? Landlords possessing such property will surely be anxious to have accomplished that which they are unable or unwilling to attempt. A facility for transfer of land would be a boon to all England, when it becomes necessary to sell. I most strongly object to Tenant-Right in any sense. All contracts should be free. At this moment I am, with all other Irish landowners, a great sufferer by that most unwise and unjust measure, called the Irish Land Bill. Tenants there ride rough-shod over the owners of property. They object to an increase of rent when leases fall in, they decline to purchase at anything like value, and they threaten to murder any man who dared to take a farm at a higher rent than they are willing to give; this is the position described by our English Liberal members of Parliament, as being proof of the Bill working well. In case of going before the barrister appointed to decide between the parties, the tenants produce any number of witnesses to prove what they have done, at least three-fourths of which is positively untrue. These barristers, who are a respectable, and often a clever set of men, are bewildered, but consider that they are bound to carry out the Act, although some are ready to admit its injustice. My Irish property is let on 20 years' leases, at moderate rents, with the full understanding that at the expiration of the terms a fresh valuation would be made. Some open lands at 2s. per acre, which now, fenced and drained, are well worth 18s. or 20s.; men there, commencing with their own labour, now rich and comfortable, but ready to ask for compensation, although they have been repaid five times over. The Welsh M.P. would find his mistake if Tenant-Right were to be established in Wales. Here good tenants require £13 per acre to take a farm; it used to be £10. Small bad farmers have neither the money nor ability, as a rule, to farm tolerably well; and they will gradually be obliged to retire, which I consider a misfortune. My great difficulty is to impress on them the absolute necessity of education for their children.

Mr. Mechi replies thus :

There can be no doubt that the proper conversion of our common lands is a paying operation, and no better evidence need be adduced than that which your lordship gives of the success and wealth of your Irish tenants, who have done so. I presume that our Land Improvement Companies would make the necessary advances on the security of the land. It appears to me that the reclamation of our waste lands presents to these companies a vast field for the investment of the capital which awaits their demand for it, could they find opportunities for its utilisation, which has not hitherto been the case. It cer-

tainly does appear anomalous that while we are constantly deploring the want of capital in agriculture, we as landowners, omit to apply for it, although abundantly available. The value of such unreclaimed land could be easily ascertained. Hereabout it would readily command from £5 to £10 per acre. Most of our heath in this neighbourhood has been reclaimed and converted into corn land, and although the cost has been considerable, I hear no complaints as to its not having been a profitable operation. In fact there is always a ready sale for unreclaimed land. The landowner's outlay would probably vary from £5 to £15 per acre for fencing, roads, farm-buildings, and draining, where the latter is required. Such land, when put into fit condition for the investment of a large tenant capital, would readily command from 20s. to 30s. per acre rent. How little of our land is really in a fit condition for the profitable investment of tenant capital? Where are the good roads and fences, the covered yards, good labourers' cottages, the suitable residence for a well-capitalised tenant? Is not draining still to be done on 11-12ths of our land requiring it?—so says a great authority, Mr. Bailey Denton—therefore I feel justified in saying that on well-conditioned reclaimable land a considerable rent might be obtained from a dependable tenant. There need be no outlay on the part of the landowner, for the interest charged by the company, which finds money for the improvements at 6½ per cent. interest, would cover ordinary principal and interest in, I believe, 26 years, so that, at the termination of this period, there would be no longer any charge upon the land. How much of the 6½ per cent. is to be paid annually, in fair proportion, between the landowner and tenant is an affair of agreement. In one matter, draining, if the tenant paid it all, he would still be a considerable gainer, although that would be hardly equitable, because I look upon draining at 4 feet deep in strong clays as an almost permanent improvement, provided that the work is well done, and the outfalls carefully watched, which is too often not the case, and for which the tenant should be made responsible. My experience teaches me that the drains in strong soils should be nearer to each other in a pluvial than in a dry climate, 30 feet being the maximum, and 14 ft. the minimum distance. As to the period of lease to a tenant who effected all these conversions and improvements at his own cost. I consider that 30 years would not be more than, on such conditions, he would be entitled to, paying of course only a waste-land rent during that period. All these matters could be well calculated by some of our well-known able and equitable land-valuers. I cannot agree with your lordship's opinion about Tenant-Right, because I look upon it as the basis of improved agriculture. No one, I think, can doubt it who has read the digest of the evidence on this subject, taken before the late Mr. Pusey's House of Commons committee in 1849. This digest was prepared by Messrs. Shaw and Corbet, of the London Farmers' Club, and being reprinted may, I believe, still be obtained at Mr. Tuxford's 265, Strand, price 3s. 6d. It contains the evidence of 50 eminent land owners, land valuers, and farmers. In the case of your Irish tenantry, it appears from your letter that they alone have effected the conversion and improvement of your waste lands, and are therefore justly entitled to their fair share of the resulting advantages. In strict equity your lordship

could only claim the enhanced rent which the land, still unimproved, would have now commanded by the efflux of time and change of circumstances. My experience, as regards the veracity of the lower orders of Irish, corresponds with yours, for as a magistrate of London, in numerous cases of assault, battery, &c., from the Irish colonies within the City, I have often been puzzled and amused by their easy conscience in the matter of oaths, for which, however, due allowance should be made. We have unmistakable and satisfactory proof in Lincolnshire of the national importance of Tenant-Right by its great encouragement of ample and increased production. The custom of the country there renders the question of leases quite secondary, because a tenant can safely farm well up to the last moment of his occupation, and then enter upon another holding also well farmed and unexhausted. This is a matter of great advantage to the nation, for the full production of food by good farming is continuous, while under the ordinary system several years are occupied in exhausting the land, and as many more in endeavouring to restore the lost fertility. Even with the Scotch 19 years' lease, which has caused so much improvement, this "taking-out" system prevails because there is no compensation to the tenant for any portion of his unexhausted improvements. It is to be hoped that in the course of time something like a systematic and uniform practice of valuation at outgoing may take place, where the conditions are similar. If the Legislature once enacted a general principle of valuations for tenants' unexhausted improvements, our able land-valuers would soon show themselves capable of estimating at their fair value the proper allowances. In many parts of Ireland the tenant has dug and reclaimed the land, built his own hut, house, or sheds, the landowner having only provided the bare waste. Is it not natural, under such circumstances, that the tenant should look upon his own improvements as his own property, and that the feelings of irritation and injury upon eviction or greatly increased rent, should in the absence of legal valuation of unexhausted improvements, and in the case of a vivacious and excitable people, find vent in illegal proceedings? For in Ireland it is almost to the land alone that the population look for subsistence and employment. We all know that in towns and cities no tenant would be so unwise as to effect improvements without a lease long enough to recoup himself for his outlay, or a valuation of such improvements. I can readily perceive why your lordship's feelings about Tenant-Right are adverse. Your lordship, in your own county, is known and esteemed as a clear-headed man of business, with perfectly equitable feelings, and a right sense of a landlord's duties and responsibilities. Your tenants, if worthy men, may be said to have an almost certainty of the renewal of their leases on equitable terms; you assist them in their improvements, and are anxious to adapt your property to modern requirements. Many other noble owners do the same, but in too many instances all this is wanting; and as, in business matters, people are not saved by faith, but by the want of it, we must lay down as a general rule and undeniable proposition that security for improvements will induce and encourage them, while the very reverse will take place in the case of doubt and insecurity. I entirely agree with your lordship as to the question of education. It can hardly be expected that uneducated men should appreciate the necessity for educating their children; but it will not be so with the rising

generation, under our new laws. The love of education in Scotland began when John Knox, 300 years ago, compelled the heritors, or landowners, to erect a school in every parish; and it is owing to this general education that we find, everywhere out of Scotland, Scotch bailiffs, stewards, gardeners, and managers, and successful men in other pursuits. I think that we ought not to regret the great increase of size either in our farms, factories, ships, or commercial and trading concerns. It affords evidence of our greatly increased wealth, caused by the intelligent appreciation and use of steam; and it is to this cheap and effective power that farmers must look for greater profits, landowners for higher rents, and the country at large for more abundant and cheaper supplies of food. I hope that our enormous and rapid increase of wealth produced by steam will not render us too luxurious or too idle. There is a danger of this, judging from past history. The time will come when the tenant-farmer's capital on arable land will be £20 to £25 per acre in order to get the largest per centum of profit, and that the piece-work done by the well-paid, well-fed, well-housed, and well-educated labourers of the future will be as cheap or cheaper than it is now under different circumstances.

The peer rejoins:

Surely the amount of success by an Irish tenant must depend on the quality of the open land to be improved. If he sees his way to make a good profit in 20 years he makes a good bargain, and ought to be ready to commence a new lease on the improved value of the farm he has held for that period; otherwise this class of man would never have a chance of bettering his position. His landlord would prefer borrowing the money at $6\frac{1}{2}$ per cent., which used to be considered paid-off in 22½ years (it may now be 26 years), and, having brought it into good cultivation in one year, could obtain rent equal to the interest he is paying for a lease of that length, after which time the land would be free of all charge. If, according to your rule, a landlord could in strict equity only claim the enhanced rent which the land still unimproved would, after 20 years, have commanded, that, in most cases, would be *nil*. What would a London house-owner say if he let me a house for 30 years in Grosvenor-square, or in any other square, and at the expiration of the lease I claimed a sum of money for improvements made by me during the term? He would simply laugh at me. P.S.—I always allow in — for all unexhausted improvements, if a tenant does not renew his lease.

Mr. Mechi concludes thus far:

Excuse me for saying that, judging by your postscript, you practice, voluntarily, that which you disapprove and condemn—I mean, Tenant-Right. There is, I consider, very little analogy between house property and land. In one case, it may be a matter of taste, or trade convenience, unsuitable to a successor; but in the case of land, sound drainage, suitable buildings, good roads, or even guano or oilcake, are things of necessary and essential farm profit, let who may farm the land. With regard to cheap and ready transfer of land, your lordship's august House has the power of legalising it in its own hands. In my opinion, the same principle should be applied to land as to personal property—that possession should be accepted as *prima facie* evidence of ownership. I think that the success of a tenant who reclaims waste depends principally on his mode of converting and farming it.

A FORBIDDEN SUBJECT!

At the dinner of the Watlington Agricultural Society, Mr. Hogan, Vicar of Watlington, said there was one question on which he might be expected to say a few words on the present occasion, and which might be calculated to draw forth a few remarks from some of those present. He would speak of it without prejudice, and the question to which he alluded was that of the agricultural labourer. Mr. Greenwood, the vice-chairman, said that he hoped that that subject would not be broached that night by any person. The Chairman ruled that Mr. Hogan was in order. Mr. Hogan said that the great movement had begun to show signs of life even in this very remote district of Watlington. They ought,

therefore, to consider the matter in advance, and meet the difficulty, if any arose, in a Christian spirit. He had heard with regret, and it had been said in public, that when a rise took place in the labourers' wages, which was expected, that there would be a cessation of the acts of kindness and Christian feeling towards the employed. He thought that this would be a very sad state of things. He considered that they ought to look to the question in a business point of view, and make such arrangements so that they might obtain the value of the money they paid. But what was done in that respect ought not to interfere with the acts of kindness which had done so much to alleviate the poverty

of this country, and which might eventually lead those who had no friends, as we had, to a heavenly home, instead of turning them to evil paths by feeling themselves forgotten and disregarded by those above them. The Vice-Chairman again interfered, and asked if the Chairman would put it to the meeting whether the subject should be brought before the meeting. If they were to discuss it they would, he said, only make a mess of it. The Chairman said he believed that the only questions that were barred at that meeting were politics. Mr. Hogan said that he wanted just to mention one fact and a simple one. On a farm not a hundred miles from Watlington there was a young man about 20 years of age, of good character, and not married. (A Voice: "He ought to be.") He had worked on the farm many years, and was earning 7s. a week, and had £3 at Michaelmas. Well, he thought that he ought to—(great uproar). The Chairman appealed to the meeting, and said that he hoped they would be considerate towards Mr. Hogan, and give him a hearing. (A Voice: "Go

it, then"—laughter.) Mr. Hogan said that the young man applied for an increase of wages, and it was refused him. Well, he left his employment, and was summoned before the magistrates. (A voice: "Serve him right; he hired himself.") That was the course of proceedings that was taken, but he did not appear, and a warrant was issued against him. Mr. Mortlock interfered: the question before the meeting he said, was that of "The Bishop and Clergy of the Diocese," but Mr. Hogan was digressing. Mr. Hogan said that what the end of the case would be might remain a secret. He did not suppose that it would offend the bishop and the clergy, and he trusted that the other speakers would keep so closely to their subjects as they wished him to do. The company having thus stopped Mr. Hogan, proceeded to drink the healths of the County Members, giving very consistently "one cheer more" for Mr. Henley, who has spoken on the labourer's case at every agricultural meeting he has attended this year!

THE NORTHAMPTONSHIRE AGRICULTURAL SOCIETY.

MEETING AT WEEDON.

The warlike and beery Weedon, with its barracks and canteens, is well known as a station on the North Western Railway; accessible by rail to the inhabitants of the surrounding country; but with those drawbacks to quick transit, waiting, shunting, and shifting, and this year it was fixed on as the rendezvous of the Northamptonshire Society. It is but a bit of a place, with little or no accommodation for visitors who support the shows, and whose comfort managers ought to study, or they will lose some of their best customers. We will tell them how to do it. At Malton, this year, they had a man from Manchester to cater for the visitors in the show-yard, where, in a dining-room fitted up, and the table laid out as it would be in the coffee-room of a first-class hotel, you could dine off salmon, fowls, ducks, joints, meat and pigeon-pies, pastry, and cheese with cucumber salad, green peas, beans, and potatoes, and capital attendance for three-and-six-pence. At Weedon we were actually charged the same money for breakfast—tea, a hunch of mauled bread, a weedy-looking chicken, and a few slices of ham on a plate—and this, too, on a cloth covered with the crumbs dropped by some hungry wanderers who had fed before us. After the show, we were compelled to yield to Providence, and drop three shillings more for bread, cold round of beef, with cheese, served postboy or taproom fashion; but in fair play there was a rabbit-pie, by way of "a delicacy." We are glad to say the Society has gone a-head in another direction, as the yard was very natively laid out with a capital horse ring, while the animals were nicely numbered, and nothing could be better than the housing of the horses, cattle, sheep, and pigs. In fact, had we been blindfolded like Baba Mustapha, and led into the yard by that active member we saw decorating the judges, kindly taking the part of Morgiana, and then and there told, on the handkerchief being removed, that it was the same Society which held a meeting at Oundle a year or two back, we should have replied, "Tell that to the Forty Thieves."

It was not a grand show, but still a very fair one, and well attended considering that it clashed with the Warwickshire, which was in full swing at the same time, and within a distance of five-and-twenty miles as the crow flies. As there was little or no accommodation for visitors in the place, it was wise to give them a little law in the morning, and consequently judging

did not commence until ten o'clock. The Shorthorns stood first in the catalogue, and although good in quality they were poor in numbers, as one of the largest classes was the yearling heifers, with an entry of eight, but two of these, Victoria Victrix and Scintilla, were absentees, as were all Lady Pigot's entries. In the fat stock, Mr. E. Wortley's ox by Imperial Count, which we have several times spoken highly of, will take some shaking off at Birmingham and in London, had but one opponent, a really nice, deep red-and-white three-year-old by Duke of Wateringbury. Lord Spencer's red steer by 4th Grand Duke, is a good beast, with a dip in the back, and not very elegant about the head and neck. The second to him has plenty of quality, but is wanting in girth; while the other two competitors, one of Lord Exeter's by Imperial Count, and a roan by Lord Stanley Spencer, of Sir W. de Capel Brooke's, although they did not lack breed, were not show animals in form. His Excellency was again to the fore in the cows of any age, with the level, good-looking Witch of Airdrie; the leery Miss Chesterfield, in her ninth year, once a reserve number at the Royal as well as a winner of nine or ten county prizes, being her only rival. Mr. Bradburn's Moss Rose, a very fine, lengthy, deep heifer, with a kind head and eye, and of nice quality, walked over for the money. She was not in her best form, as she has been amiss, and wanted a little padding in parts, more particularly on her ribs just behind the elbow, which in veterinary lingo would be "a deficiency in the development of the serratus major"—fine words that would choke a butcher. Telemachus, who has thickened since last year, was the best all-aged bull, beating the thick-set useful King Victor, of Peterborough renown, and Cabelles from Thame; the other entry, Lady Pigot's Rapid, being an absentee. Grand Duke 2nd and Minotaur by Watchman, two useful farm animals, were the only competitors for the fifteen pounds for bulls above two years old to serve in the county for six months; while Cambridge Duke 5th, a roan bull under two years old, was solus. Then another Cambridge Duke 5th by 9th Duke of Geneva, out of Red Rose 5th, was a long way the best of the half-dozen bull-calves. He is quite a gentleman, and nicely made with good length, straight back, and great thighs, but a trifle light behind the shoulder. Telemachus 2nd, from the same herd, and a prize-taker at Peterboro', was also in the class,

but he has not improved in form, as he has run to belly like a publican. The cows in milk or in calf were not a grand lot, Natural being but a useful farmers' cow, with a plain head. Mr. Sharp's Julia 9th is a neat-headed, nice heifer, and easily got the better of her only competitor. Then the deep, square-built Prize Flower from the same herd beat the really taking nice-headed Verona and two more; while Moll Gwynne, which we noticed when first and Peterboro' as anything but elegant in form, besides being weak in her thighs, beat half-a-dozen others. Christmas Rose, eight months old, by Gauntler, out of Red Rose by Waterloo Duke, is a beauty, full of quality, but the Princess from Broughton is flat in her rib. Of the wicked-eyed Penelope we gave a description in our Peterboro' report, when beaten by Moll Gwynne, but here she beat the uneven Rosebud and three others.

Having disposed of the beef, we now turn to the mutton, and find a fair show of sheep; but with Mr. Clarke, of Ashby-de-la-Zouch, missed as an exhibitor. Mr. Harris' second Royal pen of ewes now look grand by the side of such as Mr. Hadland's and Mr. Hewett's; and Mr. Pears' first Royal theaves are again victorious, with Mr. Gunnell's first pen and cup-takers at Ramsay, and a pen from Burghley in close attendance. Mixing the long-woolled and crossed-bred ewes was thought to be an error; but the matchy Downs, from Winchendon, beat the sorty Mere Lincolns, both being very good pens. Mr. Longland's and Mr. Street's theaves had met before, and at Aylesbury the Northampton pen were first prize and cup winners, while the Harrowden pen only came in for a high commendation. But we quite agree with the Weedon verdict, as the winners which come from the well-known Biddenham flock have more breed, with better heads, and are decidedly more matchy than Mr. Longland's, and they now score their ninth victory. Mr. Easton had two useful pens of shearhogs, a cross between the Hampshire and Oxford Down, and Mr. Street a couple of pens by an Oxford Down ram, out of long-woolled ewes, the second at Ramsay, now beating his first there, as we think justly. Two out of the three of Mr. Gunnell's long-woolled shearhogs were first-prize takers at Ramsay, and they here beat some very fair ones of Sir W. De Capel Brooke, and a very indifferent pen from the Burghley flock. Mr. Hack's two-shear long-woolled tup is of good symmetry, and was a first prize at Peterboro' in 1871, but he does not look like turning out a good leg of mutton. Mr. Treadwell's shearling Oxford is a big sheep of character, with a good top, but rather open in his coat, but no doubt the best sheep in his class. Nor can there be any doubt as to Mr. Street's 3rd Royal compact-built sheep, with rare thighs and quality, being a better tup now than the first Royal of Mr. Treadwell's. He is a better sheep throughout, saying nothing of the year's difference in age, for the Harrowden sheep is only 2 years and 6 months old, while the Winchendon tup is 3 years and 6 months, and this is the third time he has beaten the other since the Royal decision. The competitors in the other classes were Messrs. Gunnell, Harris, Doig, and Street, and the verdicts will be seen in the prize-list. With the Duckering cracks, which took five-and-twenty pounds out of the thirty there was a creditable little gathering of pigs, all white but one, the exception being a Berkshire boar.

Sated with bulls and cows, of sheep and piggeries, tired the restless soul roams to the horse rings, and finds the cart judges at one end and the nag bench at the other. The first which attract our attention are the cart mares and foals, and among some eight or ten active nice-sized mares is a roan conspicuous for her good looks, besides being full of character and stepping like a pony. She turns out to be Beauty, a second

Royal at Cardiff to the well-known Norfolk mare Smart, and we set her down as sure to win in such company. The second is a taking mare at first sight, but plain in her head and light in her back ribs, with her quarters too much away from her, and more daylight about the stifle than we like to see for draught. Her foal was much fancied by a very good judge, but we think it will always be a trifle long and light in the barrel. Mr. Key had a compact mare, but rather calf-kneed, while Mr. Heasman and some others were worthy of commendations. The two three-year-old cart geldings were not up to much; but the two-year-old roan gelding is a very nice nag and a good mover, though a trifle high from the knee down, and rather pigeon-toed. He was a first at Market Harboro', beating Mr. Purser's filly and a lot more. Mr. Harris' second Royal, though somewhat stylish, did not improve on a second acquaintance in the open. Of the other, Mr. Reeves' gelding by Waxwork, pleased us as much as anything, and T. Lee's black filly, another roan of R. Tims', and W. Walker's colt by Sampson were serviceable looking nags. In the yearhugs we had the first Royal at Cardiff, and G. Fullard's black, a first at Peterboro'—both fine fillies; while the first prize looked rather common in his box, and the second small yet thick and cobby; but as we did not see this lot out we cannot say anything for or against the verdict.

Northamptonshire, besides being noted for its wide-spreading pastures and its agriculturists, its nobles and snobs, is also pretty well known as one of the finest hunting counties that we have. And, therefore, it must not be supposed that we have left two such fine horsemen as Mr. Elliott and Mr. Bolton.

Still by themselves abused or disabused;

while we have been discussing the merits of the Shorthorns, sheep, and pigs, or the farmer's pride of a market-day, the well-fed, nicely harnessed, brisk stepping team with carter and boy to match, although all these conduce to keep the hunter going. But here are some of the future hopes with their dams in the ring. In anything but a grand dozen, but still a useful lot without lumber, the best-looking was Lord Spencer's Miss Buckland by Venison, but the prize goes to a light steeple-chase mare; not much to look at, with a nice foal by Dalesman. But the ages of the foals are not given, which makes all the difference in coming to a decision, and under all circumstances we should go more for the mare, as the form of the foal depends on the sire as well as the dam. The second prize was not hunting-like in her forehead. The hunters five years old and upwards made a very fair show, with several very business-like horses, and a total eclipse of the beefy, lumbering, stand-still brutes. In fact, this was the character of the riding-horses throughout, although there might have been one or two of the sort which Noah would not have passed into the Ark. The tussle as to who should be at the head of the poll was between Yorkshire Relish, a compact, thick-set, rather soft looking, mealy bay, who went very well under the judges, and Pelham, now getting pretty well known in the ring as a prize-taker, having been placed first at Driffeld and second at York in 1871, as well as third at Birmingham this year, where we thought he should have been first, as he is very hunting-like, with a good strong stride. But most probably we shall not see any more of him in the ring, as he was purchased here by Mr. Newcombe Mason. Mr. Hunt Caldecott, Rutland, had a bay of a very good stamp, and a goer, and R. H. Hewitt, the owner of Yorkshire Relish, a grey compactly made and a good mover, while the Banbury prize grey of Mr. Bliss went along in a fashion, but did not get his hind-legs under him at all. Some of the best of the others were W.

Manning's bay mare by Eryx, T. C. Smith's chesnut mare by Drayton, and C. H. Ridgway's old-fashioned, leggy chesnut, with a capital action. There were some nice four-year-olds, Red Prince by General Hesse being a very well-made, bloodlike horse, with great arms and thighs, as well as being quick on his legs, but he was very raw in his manners, and did not get over the ground like Guy Fawkes by Lovell, a big, unfurnished, but very promising black, gaudily marked with white, which has a tremendous stride and looks like being made of the right stuff. Mr. Drage, his owner, had also Jenny Lind, a thickset mare and a mover, by Plenipo, dam by Bay Middleton—rather a grand-sounding pedigree, but of course a Brummagem Plenipo, and not Mr. Batson's horse foaled in 1831. As pedigrees are concocted now-a-days, we wonder a yearling has not turned up before this by Flying Childers out of Bald Charlotte or the Byerley Turk. Mr. Sanders' brown horse by Idler was grand enough for parade. The three-year-olds were headed by Marshal MacMahon, which made his first appearance under the saddle, and we only echo the opinion of the judges in saying that he would look much better with a heap of flesh off. The second to him—Empress—is a very springy-going varmint mare, but hackish in appearance. The best of the others outwardly and visibly were Lord Spencer's Epaulette by General Hesse, remarkable for her length, W. H. Wyke's brown by General Hesse, J. Harris' brown by Rufford, and the Rev. Thornton's brown by Rapparee. There was a good class of two-year-olds, headed by General, by Promised Land, a deep-topped lengthy short-legged bay, and a fair mover, while the second to him, by Rapparee, is a lathy bay, and a good stepper, and we fancy more adapted for the saddle than the first prize; the reserve being a very neat grey of Mr. Messenger's. It was a class of seventeen, and among several good ones which stood out was Lord Spencer's big brown colt by Garibaldi. There was a mistake in the entries for the yearlings, as the winner was down as a bay colt by Dalesman, &c., of Mr. Flesher's, Northampton, whereas it should have been J. Goodliff's, Huntingdon, chesnut filly by Tom Tit, out of Evangeline, by Lambton or Magnum. She is a filly of nice form, with the exception of a slight thickness in her shoulders, and was first at Spalding this year. The second is a chesnut by Dalesman, out of Miss Buckland, the mare we fancied in the hunting brood mares, and not a bad colt. There were two or three other fair ones behind them. Three hackney brood mares of a very different stamp entered the lists for the prizes; the first being a useful bay hackney, while the second prize, was a very varmint wiry grey, and the other, J. Reeves', a very clever cobby little mare. They were all good, and a verdict placing either first, second, or third, would have equally pleased. We plumped for the grey, while a gentleman next to us declared for the pony, when another exclaimed "I'm blown if they aren't given it to t'other." There was a good class of hackneys, the second being a very handsome one by The Ugly Buck, and the first, rather plain, but "handsome is as handsome does," for he was a capital mover. Two of the best steppers in the cobs were J. Manning's roan, and W. L. Hill's mare by John Halifax. After having witnessed the action of some clever ponies, we glide away home by a slow train, thankful on any terms to be quit of such a place as Weedon itself, to which it is to be hoped so good a Society as the Northamptonshire will never think of paying another visit.

PRIZE LIST.

JUDGES.—CATTLE: J. Topham, The Hemplows, Welford; J. Searson, Cranmore, Market Deeping; J. K. Fowler,

Aylesbury. NAG HORSES: J. M. K. Elliott, Heathencote, Towcester; H. D. Boulton, Putnoe, Beds. CART HORSES: W. Drage, Holcot, Northampton; W. Chew, Thorpe, Oundle; J. H. Plowright, Manea, Cambridge. SHEEP AND PIGS: G. Wallis, Old Shifford, Bampton; W. Dudding, Panton, Wragby; J. Painter, Belgrave Road, Nottingham. POULTRY: E. Hewett, Sparkbrook, Birmingham. IMPLEMENTS: F. Lythall, Spittal, Banbury; J. W. Watts, Orlingbury, Northampton.

CATTLE.

FAT STOCK.

Ox exceeding three years and three months old.—First prize, £10, E. Wortley, Riddington, Uppingham; second, £5, Sir W. de* Capel Brooke, Geddington Grange, Kettering.

Steer not exceeding three years and three months old.—First prize, £10, Earl Spencer, Althorp Park; second, £5, J. N. Beasley, Pitsford, Northampton.

Cow of any age.—First prize, £10, Earl Spencer; second, £5, W. Bradburn, Wednesfield, Wolverhampton.

Heifer not exceeding four years old.—First prize, £10, W. Bradburn.

BREEDING AND STORE STOCK.

Bull of any age.—First prize, £15, Marquis of Exeter, Burghley Park, Stamford; second, £5, J. How, Broughton, Hunts.

Bull above two years old.—First prize, £10, H. Sanders, Brampton Hill, Northampton; second, £5, J. Sargent, Dodford, Weedon.

Bull above one and under two years of age.—Prize, £10 J. J. Sharp, Broughton, Kettering.

Bull-calf above six and under twelve months old.—First prize, £10, Marquis of Exeter; second, £5, C. Bayes, Kettering. Reserved: C. Bayes.

Cow in milk or in calf.—First prize, £7, J. A. Mumford, Brill House, Thame, Oxon; second, £3, J. J. Sharp. Reserved: Marquis of Exeter.

Heifer of any breed.—First prize, £7, J. J. Sharp; second, £3, W. Hurley, jun., Farthingstone, Weedon.

Heifer of any breed, in milk or in calf, above two and under three years old.—First prize, £7, J. J. Sharp; second, £3, J. How. Reserved: R. H. Hewett, Dodford, Weedon.

Heifer, of any breed, above one, and under two years old.—First prize, £7, Marquis of Exeter; second, £3, W. Cropper, Rugby. Reserved: J. How.

Best-heifer calf, of any breed, under twelve months old.—First prize, £3, G. L. Watson, Rockingham Castle; second, £2, J. J. Sharp.

Best Shorthorn heifer, above one and under two years old.—First prize, £15, Marquis of Exeter; second, £5, J. J. Sharp. Highly commended and reserved: Rev. J. Storer, Hellidon, Daventry. Commended: J. J. Sharp.

HORSES.

Stallion for agricultural purposes.—First prize, £10, T. Middleton, Lyddington, Uppingham; second, £5, T. Stokes, Caldicott, Rockingham.

Mare and foal for hunting.—First prize, £15, W. Kenning, Bradden, near Towcester; second, £5, C. C. Dormer, Courteenhall, Northampton. Commended: Sir W. de Capel Brooke.

Mare or gelding, five years old and upwards, for hunting.—First prize, £15, R. H. Hewett, Dodford, Weedon; second, £5, C. C. Dormer. Commended: H. Hunt, Caldicott.

Mare or gelding, above four and under five years old, for hunting, bred within the county of Northampton.—First prize, £15, Earl Spencer; second, £5, J. Drage, Moulton Lodge, Northampton. Highly commended: J. Drage.

Gelding or filly, above three and under four years old, for riding.—First prize, £7, J. Goodliff, Huntingdon; second, £3, R. Battams, Oxendon, Northampton. Highly commended: Rev. T. C. Thornton, Brockhall, Weedon. Commended: I. Harris, Ascote, Towcester.

Gelding or filly, above two and under three years old, for riding.—First prize, £7, H. Sanders, Brampton Hill, Northampton; second, £3, Rev. T. C. Thornton. Commended: J. Messenger, Maidford.

Gelding or filly, above one and under two years old, for riding.—First prize, £7, W. Flesher, Northampton; second, £3, Earl Spencer. Commended: J. Manning, Weston Favell Lodge.

Mare, not exceeding 15 hands 1 inch high, with foal at foot, for breeding hackneys.—First prize, £7, S. Wallis, Barton Seagrave, Kettering; second, £3, S. Deacon, Polebrook Hall, Oundle.

Hackney (mare or gelding) not exceeding 15 hands 1 inch high.—First prize, £7, V. Hadland, Flore Hill, Weedon; second, £3, J. B. Howes, 9, Spencer-parade, Northampton. Highly commended: J. Sargeant.

Cob (mare or gelding) not exceeding 14 hands 1 inch.—First prize, £5, Major F. Mason, Willoughby, Rugby. Commended: H. St. Paul, Everdon Hall, Daventry.

Pony (mare or gelding), not exceeding 13 hands high.—First prize, £5, C. Whitelaw, jun., Flood Ferry, March, Cambs. Commended: J. Tew, West Haddon.

Cart mare, with foal at foot.—First prize, £10, F. Street, Harrowden House, Bedford; second, £5, J. Ashby, Murcott, Long Buckby. Commended: J. A. Johnson, Stowe Lodge, Weedon.

Cart gelding or filly, above three and under four years old.—First prize, £7, R. Wood, Clapton, Thrapstone; second, £3, R. Timms, Manor House, Braunston, Rugby.

Cart gelding or filly, above two and under three years old.—First prize, £7, R. Timms; second, £3, W. Walker, Newnham, Daventry. Highly commended: W. Walker, Duston.

Cart gelding or filly, above one and under two years old.—First prize, £5, A. Thursby, Wormleighton, Leamington; second, £2 10s., R. Timms.

Mare or gelding, for action in harness.—First prize, £7, A. Whittome, Burnt House, Whittlesea; second, £3, T. Messenger, Cold Higham Downs, Towcester.

Mare or gelding, for action in harness, not exceeding 14 hands 2 inches high.—First prize, £3, T. J. Merrick, Northampton; second, £2, C. Whitelaw, jun.

SHEEP.

Pen of ten long-woolled ewes.—First prize, £7 7s., T. W. D. Harris, Wootton, Northampton; second, £3 8s., H. G. Hadland, Flore, Weedon. Reserved and highly commended: R. H. Hewitt, Dodford, Weedon.

Pen of five long-woolled theaves.—First prize, £5, J. Pears, Mere, Lincoln; second, £2 10s., T. W. D. Harris. Reserved and highly commended: T. Gunnell, Willow House, Milton, Cambs.

Pen of five long-woolled or cross-bred ewes.—First prize, £5, J. Treadwell, Upper Winchendon, Bucks; second, £2 10s., J. Pears. Reserved: J. Treadwell.

Pen of five short-woolled or cross-bred theaves.—First prize, £5, F. Street, Harrowden House, Bedford; second, £2 10s., J. Longland, Grendon, Northampton. Reserved: C. Barge, Weedon.

Pen of three short-woolled or cross-bred shearhogs.—First prize, £5, M. E. Jones, Wellingborough Lodge; second, £2 10s., F. Street. Reserved: M. E. Jones. Commended: F. Street.

Pen of three long-woolled shearhogs.—First prize, £5, T. Gunnell; second, £2 10s., Sir W. de Capel Brooke. Reserved: Marquis of Exeter.

Shearling long-woolled tup.—First prize, £7, T. W.

D. Harris; second, £3, J. Pears. Highly commended and reserved: T. W. D. Harris.

Long-woolled tup.—First prize, £7, A. Hack, Buckminster, Grantham; second, £3, J. Pears. Reserved: A. Hack.

Shearling Down tup.—First prize, £5, J. Treadwell; second, £2, F. Street. Reserved and highly commended: J. Longland.

Down tup, two-shear and upwards.—First prize, £5, F. Street; second, £2, J. Treadwell. Reserved: Marquis of Exeter.

Five long-woolled wether lambs.—First prize, £3, T. W. D. Harris; second, £1 10s., T. Gunnell.

Five long-woolled ewe lambs.—First prize, £3, T. Gunnell; second, £1 10s., T. W. D. Harris.

Five short-woolled or cross-bred wether lambs.—First prize, £3, and second, £1 10s., R. Doig, Lillingstone Hall, Bucks. Reserved: F. Street.

Five short-woolled or cross-bred ewe lambs.—First prize, £3, F. Street; second, £1 10s., R. Doig. Reserved and commended: D. Doig.

PIGS.

Boar of the large breed.—Prize, £5, E. Duckering, Northorpe, Kirton Lindsay.

Boar of the small breed.—Prize, £5, S. Deacon, Polebrook Hall, Oundle. Reserved and highly commended: R. E. Duckering. Commended: Earl of Carysfort, Warmington, Oundle.

Breeding or suckling sow.—Prize, £5, R. E. Duckering. Reserved, highly commended, and commended: W. A. Hope, Wellingborough.

Breeding or suckling sow, of a small breed.—Prize, £5, R. E. Duckering. Reserved and highly commended: W. A. Hope, Commended: Earl of Carysford and J. Measures, Grafton, Underwood.

Three fat pigs of one litter, of any breed or age.—Prize, £5, R. E. Duckering. Reserved and highly commended: J. M. Lovell, Harpole.

Five breeding pigs of one litter, exceeding three and not exceeding six months old.—Prize, £5, R. E. Duckering. Reserved and highly commended: Earl of Carysfort.

BUTTER.

Twelve pounds of butter, made up in two-pound lumps, wholly or partially the production of Alderney cows.—First prize, £3, J. J. Aris, Blakesley, Towcester; second, £1, J. G. Jones, Moulton Lodge. Commended: Major F. Mason, Willoughby, Rugby.

Twelve pounds of butter, made up in two-pound lumps.—First prize, £3, M. Page, Newbold Grounds, Daventry; second, £1, J. Clode, Great Linford, Newport Pagnel. Reserved and highly commended and awarded 10s.: J. Sargeant, Dodford Weedon. Highly commended: W. Newitt, Braden, Towcester. Commended: E. Edmunds, Thrupp Grounds, Daventry.

Six pounds of butter, made up in one-pound rolls.—First prize, £3, C. Barge, Weedon; second, £1, J. Wareing, Berry Fields, Daventry. Commended: J. Tarry, Weedon.

THE DERBYSHIRE AGRICULTURAL SOCIETY.

MEETING AT DERBY.

Without on the one hand aiming at anything very high in the way of All-England invitations, or, on the other, attempting to keep out the best animals by petty restrictions, the annual fixture for Derby has worked on to a very comfortable and creditable meeting. It really represents the county, and is a reliable tell-tale of any progress achieved in the district. Of course such a show has its strong and weak points; but while the ladies crowd the cheese and butter stands, their husbands, fathers, and brothers, are busy amongst the dairy cattle, the cart colts, or judging the judges over the Shorthorn

families. There is never any great exhibition of sheep in the Derby cattle market, the best entries being generally from outside; and on Wednesday, with numerous blank places, there was little counterbalancing effect in the way of merit or quality. In a word, the sheep of almost all sorts were indifferent, and but for Mr. Walker's team there would not have been much of a show of pigs, as the best of the labourers' class might have distinguished himself in "better society."

"The feature" of the meeting was no question the display of cart-horses, more particularly of the young

stock, both two-year-olds and yearlings, where the entries were pretty generally large and good, while the prize-takers finished up very closely with each other. It is not often that so really useful and promising a lot of colts and fillies is got together, all very much of just the stamp an agricultural horse should be, weighty but not "lumpy," with power action and good looks. But even beyond these classes, Mr. Manning would take us up alongside "the best working pair he had ever judged," and that is a bold word, too, remembering how much Mr. Manning is about, and how indisputable is his authority in such a direction. This famous pair, the property of Mr. Tomlinson, of Stenson, was made up of two greys, a three and four years old, both by the same sire, a noted stock-getter in these parts. The next best in the class were also very good; and the brood mares were led off by a fine upstanding roan, of indeed very stylish character, the property of Mr. Marple. There was plenty of competition here, too, and, saving the stallions, not a class of cart-horses but which was well filled, either as tested by numbers or merits.

There was a more direct want of the sire's influence in the riding-horse section, where the judges suggested that premiums for thorough-bred horses suitable for getting hunters should be established. In the two younger classes, of a very moderate standard, some of the winners were by Stockbrook, said to be a son of Stockwell, and on the home farm at Chatsworth we saw on the following day, good old Mr. Sykes, who is leaving his coffin-headed mark about the country. The Duke of Devonshire, indeed, gives his neighbours every opportunity in this way, as beyond the thorough-bred one there is a smart Clydesdale to keep him company, and a couple of long-pedigree Shorthorns—the sour-visaged Gladstone, of Grand Duke belongings, and a more kindly two-year-old with a taste of Wild-eyes in his family tree. The services of these animals are offered at merely nominal prices, and such an influence will, of course, be felt. As it was, the Duke of Rutland, the Chairman of the day, and moreover the Master of the Belvoir, gave, it will be seen, a good word for the hunters, although in the 15-stone class the winner, a very good four-year-old by Rochester, with power, breeding, and action, was the only one up to the weight; and the other prizes had of a necessity to go to something of a lighter calibre—a well-bred chesnut and a high three cornered steeple-chaser by Knight of Kars. The 12 stone horses were better, and Mr. Bosworth's bay and Mr. Mitchell's black, put first and second, very taking, nice young horses, the four-year-old promising still to improve on his place here. It may be as well to state that the judges made their awards in these two classes *before* the jumping business commenced, although the colours were kept back until the hurdles had been faced—a fact tolerably suggestive of the actual worth of such a test. The best brood mare for the field showed a deal of good hunting character; Mr. Curzon won with quite a pretty hack, and Mrs. Gooch showed as neat and smart a gig horse as ever was lapped in leather. Her "manners," however, were not quite perfect; and, the judges having divided, the one premium went to a commoner—coarse and under-bred, but going away straight and well. Nothing amongst "the winner to be sold for £50" entry was worth the money, the judges withholding the second prize and recording it "a bad class." In this and the succeeding class a leading condition was that no entry should be thoroughbred—surely a very "singular" stipulation, as no "nag," let him be a hack or hunter, can in the outset be too well-bred if he only answer his purpose in other respects. Perhaps, had "the blood 'uns" been let in, these two classes would have been better filled.

The "Royal" judges who award the premiums for

milking animals to plump Shorthorns and comely Herefords should go and see the really useful condition in which the dairy cows are shown at Derby. They are entered in lots of four and pairs, and, next to the cart horses, were one of the sights of the show. In fact they were a deal more like milk, and plenty of it, than the Alderneys, of which the sample was but moderate. Lord Harrington was beaten in these lots, and then his lordship and the tenant-farmers go on and show again in the pure Shorthorn classes, with other animals of course from the same herds; as it is a nice question whether any man called on hereafter to judge dairy stock at the great national meetings should not in the first instance "qualify" for such an appointment by acting in the same capacity at Derby. He would thus be tutored to resist all the temptations of the flesh, and the rest of it. The special prize in the breeding classes was one given by Mr. Pole Gell for a bull and three cows, which was won by Mr. Ratcliffe, whose "party" included a capital bull, Blue Gown by Cæsar, out of a Thorndale cow; while the competition was generally good, with stock bred by Lord Dunmore, Mr. Beasley, Mr. Cheney, Mr. Sandy, and others in the entry, Mr. Ratcliffe pointed his victory here by also taking the first prize for fat stock with a handsome Shorthorn ox, backed by a Longhorn and a Scot from the same stalls. But the Longhorn, despite the presence of Mr. Cox, is now but a curiosity in the Midlands, while the sprinkling of good Shorthorn blood through the show tells in this way of the continued success of the Derbyshire Society, where they seem to breed cattle to make meat, milk, and cheese.

PRIZE LIST.

JUDGES.—CATTLE: J. Kirkham, Stanedge Grange; J. Dicken, Mansfield. HORSES (Agricultural): J. Manning, Orlingbury; J. Saint, Alkington. HUNTERS AND HACKS: T. B. Colton, Newark; H. Corbet, Farmers' Club, London; J. Grummitt, Westby. SHEEP (Long-wool): W. Collingwood, Fulbeck; J. Lynn, Stroxtun; (Short-wool): G. A. May, Elford; R. H. Masfen, Pendeford. PIGS: A. May; R. H. Masfen. ROOTS: R. Blackwell. GRAIN: U. Sowter. CHEESE: W. Swain, Leicester; J. W. Daniel, Derby. BUTTER: B. Brindley, Derby. WOOL: T. Lynn; G. A. May. IMPLEMENTS: W. Purves; J. Coleman; J. Abell. SHOERING AND VETERINARY SURGEON: J. King.

CATTLE.

DAIRY COWS.

Four cows for dairying purposes.—First prize and Cup, T. C. Smith, Birdsgrove; second, J. Hellaby, Twyford; third, J. Hodgkinson, Allestree; fourth, J. Porter, Weston-on-Trent.

Two cows for dairy purposes, belonging to members not keeping more than 20 cows, calved between the 1st of January and 1st of May, and in milk.—First and second prizes, E. Vale, Derby; third, Earl of Harrington, Elvaston.

Pure-bred Shorthorn cow, having had a living calf since January 1st, 1872.—First prize, E. Vale; second, G. M. Dixon, Bradley Hall; third, S. Wade, Mickleover.

Pair of heifers under three years old.—First prize, Mrs. Packman, Tupton Hall; second, S. Robson, jun., Melbourne; third, G. Bull, Repton.

Pair of in-calf heifers, belonging to a tenant-farmer dairying not less than 12 cows.—First prize, G. Bull; second, T. S. Radford, Church Broughton; third, T. Hancock, Dale Abbey.

Pair of storks under two years old, most adapted for dairy purposes, belonging to a tenant-farmer.—First prizes, E. Vale; second, J. Hellaby; third, M. Walker, Stockley Park.

Two rearing cow calves, bred by the exhibitor since the 1st January, 1872.—First prize, Earl of Harrington; second, S. Robson, jun.

Shorthorn bull, three years old and upwards.—First prize, G. Crompton, Shottle; second, T. Yates, Sapperton; third, Lord Belper, Kingston.

Shorthorn bull, two years old and not exceeding three years. W. Hollingworth, jun.; second, J. Raynor, Markeaton; third, T. Rose, The Ash.

Yearling (or not exceeding two years old) bull of the pure

Shorthorn breed, suitable for the general use of a tenant-farmer.—First prize and silver cup, value £5, J. Sutton, Derby; second, Mrs. Packman; third, T. Yates.

Bull-calf, not exceeding twelve months old.—First prizes, R. Ratcliffe, Walton Hall; second and third, T. Yates.

Fat ox or steer of any breed.—First and second prizes, and silver cup, value £5, R. Ratcliffe; third, W. T. Cox, Spondon Hall. Highly commended: R. Ratcliffe.

Fat heifer or cow of any breed.—First prize, and silver cup, value £5, G. T. Mitchell, Newton Mount; second, R. Ratcliffe; third, W. Tomlinson, Alvaston.

Bull and three females of any age, the property of one member.—First prize, 10 guineas, R. Ratcliffe; second, silver cup, value 5 guineas, Earl of Harrington. Highly commended: Mrs. Packman.

ALDERNEYS.

Alderney bull one year old and upwards.—Prize, C. H. Bakewell, Quarndon.

Cow or heifer, if in milk or in calf, two years old and upwards.—First and second prizes, C. H. Bakewell.

Yearling heifer, under two years old.—First and second prizes, C. H. Bakewell.

HORSES.

FOR AGRICULTURAL PURPOSES.

Stallion.—First prize, J. Burrows, Stanley; second, H. Barrs, Repton Park.

£5, in addition to the first prize, Mr. Bostock, Breedon.

Brood mare and foal.—First prize, R. Marple, Kedleston; second, J. Bryer, Vicar Wood; third, T. Rose, The Ash. Commended: T. Orme, Hoon; T. Rose.

Two-year-old gelding or filly.—First prize, H. Thompson, Chilwell; second and third, S. Wade, Mickleover. Highly commended: J. Hawkesworth, Barton Blount; J. H. Renals, Normanton Hill. Commended: R. Radford, Aston-on-Trent.

One-year-old gelding or filly.—First prize, S. Wade; second, F. Tomlinson, Southwood; third, S. Wade. Highly commended: R. Gilman, Longford. Commended: M. Audinwood, jun., Weston-on-Trent.

Pair of horses.—First prize, A. Tomlinson, Stenson; second, T. Winfield, Dale Abbey; third, W. Porter, Breadsall.

HUNTERS AND HACKS.

Brood mare, best fitted for breeding hunters and hacks, with foal at her foot.—First prize, T. H. Smith, Ambaston; second, W. Tomlinson, Bradley Pastures.

Hack above four years old.—Prize, R. Carzon, Alvaston.

Harness horse above four years old.—Prize, E. Thacker, Ambaston. Highly commended: Mrs. Gooch.

Gelding or filly, of the value of £50, not thorough-bred, above three and under four years of age.—Prize, R. Bott, Church Broughton.

Gelding or filly, not thorough-bred, above two and under three years old.—First prize, G. Kingdon, Spondon; second, W. Woodward, Stanton-by-Bridge.

Cob, not exceeding 14 hands high.—First prize, G. M. Dixon, Bradley Hall; second, G. J. Mitchell, Newton Mount.

Hunter, four years old and upwards, equal to 15 stone.—First prize, W. H. Oakden, Derby; second, T. S. Radford; third, T. H. Smith.

Hunter, four years old and upwards, equal to 12 stone.—First prize, C. Bosworth, Dishley; second, G. J. Mitchell; third, S. Hiron, Elford Lowe.

SHEEP.

LONG WOOLS.

Five breeding ewes, having had lambs in 1872, and suckled them up to the 1st of June.—First prize, S. Wade; second, R. Johnson, Kirk Ireton; third, A. Bryer.

Five theaves.—First prize, R. Johnson; second, A. Bryer; third, F. Robinson, Newton Grange.

Five ewe-lambs.—First prize, W. J. Matthews; second, R. Johnson.

Ram of any age above a shearling, bonâ fide the property of the exhibitor at the time of entry.—First and second prizes, R. Johnson.

Shearling ram, bonâ fide the property of the exhibitor at the time of entry.—First and second prizes, R. Johnson.

Ram-lamb.—First prize, R. Lee, Kniveton; second, R. Johnson.

SHORT WOOLS.

Five breeding ewes, having had lambs in 1872, and suckled them up to the 1st of June.—Prize, C. Smith, Kirk Langley.

Five theaves.—Prize, C. Smith.

Five ewe-lambs.—Prize, C. Smith.

Ram of any age above a shearling, bonâ fide the property of the exhibitor at the time of entry.—Prize, C. Smith.

Shearling ram, bonâ fide the property of the exhibitor at the time of entry.—Prize, W. German, Measham.

Ram lamb.—First prize, C. Smith; second, J. Rose. Commended: J. Rose.

PIGS.

LARGE BREED.

Boar of any age best adapted for general use.—First and second prizes, M. Walker. Highly commended: C. Jordan, Thulston.

Sow of any age.—First and second prizes, M. Walker.

Three breeding pigs of one litter, not exceeding seven months old.—First and second prize, F. Tomlinson. Commended: M. Walker.

SMALL BREED.

Boar of any age best adapted for general use.—First prize, M. Walker; second, F. W. Meynell, Coxbench. Highly commended: Earl of Harrington.

Sow of any age.—First prize, M. Walker; second, H. C. Musters, Kirk Langley.

Three breeding pigs of one litter, not exceeding seven months old.—First and second prizes, M. Walker.

Pig, the property of an agricultural labourer.—First prize, J. Moorly; second, J. Roe; third, L. Collier. Highly commended: J. King. Commended: E. Spendlove.

ROOTS.

Six roots of mangold wurtzel, to be taken from a crop of not less than two acres.—First prize, S. Robinson; second, J. H. Reynolds.

Six swedes, to be taken from a crop of not less than two acres.—First prize, J. Hudson, Marston-on-Dove; second, J. Greatorex, Stretton.

Six turnips, to be taken from a crop of not less than two acres.—Prize, J. Greatorex.

Six ox cabbages, to be taken from a crop of not less than one acre.—First prize, S. Robinson; second, W. T. Carrington, Hollington.

CHEESE.

Cheese of not less than 1 cwt., made in 1872.—First prize, S. Burchnall, Catton; second, C. R. Colville. Commended: J. Rose; T. S. Radford; J. Greatorex.

Cheese of not less than 1 cwt., made in 1872 (competed for only by those persons, who, being members of the Derbyshire Agricultural Society, shall not have made any cheese on the Sunday after the 13th of June, 1872).—Prize, T. S. Radford Thulston.

BUTTER.

Milk butter (not less than six pounds) made by the exhibitor.—First prize, A. M. Munday, Shipley; second, J. Raynor, Markeaton. Highly commended: J. Smith, Radbourne. Commended: D. Shaw, Cropper.

Milk butter (not less than six pounds) made by the daughter of a member.—First prize, J. Greatorex; second, T. Hancock, Dale Abbey.

WOOL.

Three fleeces of long wool.—Prize, R. Johnson, Kirk Ireton.

Three fleeces of short wool.—Prize, J. Rose, The Ash.

GRAIN.

Sample of red wheat.—First prize, S. Robinson; second, J. Greatorex.

Samples of white wheat.—First and second prizes, J. Greatorex.

Sample of barley.—Prize, J. Greatorex.

Sample of oats.—First and second prizes, J. Greatorex.

SMITHS.

For the best shoeing smith.—First prize, £3 3s., J. Wood, Ripley; second, J. Thompson, Atherstone; third, G. Hunt, Kedleston.

IMPLEMENTES.

Collection.—First prize, Haywood and Co., Derby; second, Ratcliffe and Co., Derby. Special mention: G. Murray, Elvaston, for pick and plough model.

Silver Medals to—G. Murray, for an improved pick and plough model; J. and G. Haywood, for a chaff-cutter, with reversing gear; Ratcliffe, for a chain liquid manure pump. Highly commended: H. Steer, Sandiacre, for agricultural cart.

THE WARWICKSHIRE AGRICULTURAL SOCIETY.

MEETING AT WARWICK.

In the cattle classes a large proportion of the entries were absent, the common cause being the prevalence of Foot-and-mouth disease. Mr. Bradburne was the most successful exhibitor of Shorthorns, with his bull White Satin, and his cow Coraline. The other prizes for bulls were taken by Mr. G. C. Greenway, with a Bingley Hall purchase from Mr. Mace's herd, Mr. E. Lythall, Mr. Umbers, and Mr. Davies. The Earl of Warwick took a second with a cow from Mr. How, also purchased at Bingley Hall Spring Show; and a first for a pair of cows for dairy purposes. Mr. W. T. Wakefield had a walk over in the two-year-old heifer class, and Mr. Robotham's pair of yearlings being here shown singly stood first and second. The Longhorns are not proof against Foot-and-mouth disease, so that Mr. Chapman's stock was absent; and Mr. Godfrey's bull seemed but a skeleton of what he was. The Leicester sheep consisted of about half-a-dozen good rams, from Messrs. Turner, Marris, and F. Spencer. The Cotswolds of Messrs. Wheeler were very moderate, and the Shropshires less numerous than expected, through the absence of Mr. Baker's and Mr. German's pens; while Mrs. Beach won in both classes for rams open to all England, with Mr. E. Lythall second in each case, and first in a class confined to the county. Lord Chesham was a large exhibitor, but only secured first with his well-known pen of shearing ewes, Mr. Tidy being second. The Berkshire pigs were the most numerous class, and pretty good, Mr. Humfrey sending the best pens. Several pens of pigs were disqualified. There was a large and good show of horses, Mr. Wynn's cart stallion being well known here, and the thoroughbred horse, old Neville, perhaps still better. In the class for hunters there were many good animals. The geldings and fillies adapted for hunting purposes made up another clever class. Taken altogether the horse show was one of the best held in connection with this Society, and quite the feature of the meeting. The show of implements was small.

PRIZE LIST.

JUDGES.—CATTLE: C. Randall, Chadbury, Evesham; T. Harris, Stoney Lane, Redditch. **AGRICULTURAL HORSES:** R. J. Newton, Campsfield, Woodstock; S. Spencer, Snares-ton, Ashby-de-la-Zouch. **HUNTING HORSES, HACKS, &c.:** V. B. Watts, Melcombe Horsey, Dorchester; C. Garfitt, Winsford, Northleach. **SHEEP AND PIGS:** R. H. Masfen, Pendeford; C. Clarke, Scopwich, Lincoln. **CHEESE:** —. Jacks, Leamington.

CATTLE.

SHORTHORNS.

Bull above three years old.—Prize, £10, W. Bradburn, Wednesfield (White Satin).

Bull over twenty months, and under three years old.—First prize, £10, E. Umbers, jun., Wappenbury; second, £5, E. Davies, Hatton.

Bull over ten and under twenty months old.—First prize, £8, G. C. Greenway, Ashorne Hill; second, £4, E. Lythall, Radford.

Cow in milk above three years old.—First prize, £6, W. Bradburn (Coroline); second, £3, the Earl of Warwick, Warwick Castle.

Heifer under three years old, in milk or in calf.—Prize, £6, J. Wakefield, Fletchamstead Hall (Gipsy Queen).

Heifer under two years old.—First prize, £6, A. Robotham, Oak Farm, Drayton Bassett (Miss Bloomer); second, £3, A. Robotham (Lady Isabel).

LONGHORNS.

Bull.—Prize, £5, J. Godfrey, Wigston Parva (Earl of Upton).

Cow or heifer in milk.—First prize, £5, J. Godfrey; second, T. R. Phillips, Eastern Green.

FOR DAIRY PURPOSES.

Pair of cows in milk, which have been used for the last two months.—First prize, £10, The Earl of Warwick; second, £5, W. Bradburn (Red Rose and Ammonia).

SHEEP.

LEICESTERS.

Shearling ram.—First prize, G. Turner, jun., Thorpeland, Northampton; second, T. Marris, The Chase, Ulceby.

Two-shear ram.—First prize, F. Spencer, Claybrooke; second, T. Marris.

Pen of five shearing ewes.—Prize, T. Marris.

OTHER LONG-WOOLS.

Shearling ram.—First and second prizes, T. W. D. Harris, Wootton, Northampton.

Pen of five shearing ewes.—First prize, T. W. D. Harris; second, H. Hawkes, Hunscoate.

COTSWOLDS.

Two-shear ram.—Prize, J. Wheeler and Sons, Long Compton.

SHROPSHIRE.

Shearling ram.—First prize, J. H. Bradburne, Pipe Place, Litchfield; second, E. Lythall.

Two-shear ram.—First prize, Sarah Beach, The Hattons, Breewood; second, E. Lythall.

Pen of five shearing ewes.—First prize, Lord Chesham, Latimer; second, W. Tidy, Middleton.

Short-woolled tup, being the property of (although not bred by) a member, and to be used this season in the county.—Prize, £2, E. Lythall.

HORSES.

AGRICULTURAL HORSES.

Stallion.—Prize, £20, W. Wynn, Cranhill Leys, Grafton.

Mare with a foal at her foot.—First prize, W. Russell, Shuckburgh; second, C. Borton, Temple Balsall.

Gelding under three years old.—Prize, C. Burton.

Filly under three years old.—Prize, S. Davis, Woolashill, Pershore.

Cart gelding above four years old, that has been regularly worked.—Prize, G. T. Smith, Caldecote.

Cart mare above four years old, that has been regularly worked.—Prize, £5, S. Davis.

HUNTERS.

Stallion best adapted for hunting purposes.—Prize, £15, W. Gulliver, Swalcliffe Farm (Neville).

Hunter that has been ridden in the past season with the Warwickshire, Atherstone, Pytchley, Biester, Quorn, Lord Coventry, Heythrop, and Cotswold hounds.—First prize, £15, C. A. Pratt, Shenton, Nuneaton; second, £5, E. Knott, Fenny Compton.

Hunter four years old and upwards (to be jumped on the ground).—First prize, £15, E. Bodington, Kenilworth (Sea Gull); second, £5, E. Knott.

Four years old gelding or filly adapted for hunting purposes, the property of a tenant farmer, farming not less than 100 acres of land, and residing within the limits of the Warwickshire and North Warwickshire Hunts, and to have been in his possession not less than twelve months.—Prize, T. Hodges, Binton.

Half-bred two-year-old colt or filly, the property of, and bred by a member.—Prize, J. Gibbs, Wootton Waven.

Mare best calculated to breed hunters, with a foal at her foot, the property of a person whose chief income is derived from the occupation of a rented farm, and who is a member of the society.—Prize, E. Knott.

Weight-carrier, equal to not less than 15 stone, that has

been regularly hunted during the past season with either the Warwickshire, North Warwickshire, Atherstone, Pytchley, or Biester hounds.—Prize, silver cup, value £10, W. Mann, Brockhampton (Gameboy).

HACKNEYS AND PONIES.

Hackney exceeding 15 hands high.—Prize, W. T. Stanley, Leamington.

Hackney not exceeding 15 hands high.—Prize, Miss Harrison, Eastland House, Leamington.

Pony above thirteen and not exceeding fourteen hands high.—J. Cookes, Snitterfield.

Pony above twelve and not exceeding thirteen hands high.—Prize, W. Walker, Hillmorton Paddocks.

PIGS.

Boar pig, of the large breed (except Berkshire), under eighteen months old.—First prize, Wheeler and Sons; second, R. E. Duckering and Sons, Northorpe.

Boar pig, of the large breed (except Berkshire), above eighteen months old.—First prize, R. E. Duckering; second, F. Spencer, Claybrook.

Boar pig, of the small breed, under eighteen months old.—First and second prizes, R. E. Duckering and Sons.

Boar pig, of the small breed, above eighteen months old.—First prize, R. E. Duckering; second, J. Wheeler and Sons.

Boar pig, of the Berkshire breed, under eighteen months old.—Prize, J. Wheeler and Sons.

Boar pig, of the Berkshire breed, above eighteen months old.—First prize, H. Humfrey, Kingstone Farm, Shrivensham; second, J. Wheeler and Sons.

Breeding sow, suckling pigs of her own farrow and in milk at the time of show, of the large breed (except Berkshire).—First and second prizes, J. Hicken.

Breeding sow of the small breed, suckling pigs of her own farrow, and in milk at the time of show.—Prize, J. Wheeler and Sons.

Berkshire sow, suckling pigs of her own farrow, and in milk at the time of show.—First and second prizes, H. Humfrey.

Three breeding pigs, of one farrow of 1872, of large breed.—Prize, J. Wheeler and Sons.

Three breeding pigs, of one farrow of 1872, of small breed, Prize, J. Wheeler and Sons.

Three breeding pigs, of one farrow of 1872, of Berkshire breed.—Prize, H. G. Bally, Swindon.

Sow of any breed, suckling pigs of her own farrow, and in milk at the time of show.—Prize, J. Hicken.

EXTRA STOCK.

Cattle—The Earl of Warwick (Shorthorn heifer), highly commended. Horses—G. T. Smith, Caldecote (half-bred), commended. Pigs—J. Dugdale, Wroxhall Abbey (three white Yorkshire), highly commended; J. Wheeler and Sons (Berkshire sow and Berkshire boar), highly commended; ditto (small Essex boar), commended.

CHEESE.

Three cheeses, not less than 70lbs. each, the property of the exhibitor, a member, and made from his own dairy in 1872, £5, and a medal to the dairymaid.—G. Gibbons, Tunley Farm, Bath.

Three cheeses, not exceeding 50lbs. each, the property of the exhibitor, a member, and made from his own dairy in 1872, £5, and a medal to the dairymaid.—Mr. Walker, Stockley Park, Anslow, Burton-on-Trent.

THE MANCHESTER AND LIVERPOOL AGRICULTURAL SOCIETY.

MEETING AT BOLTON.

Foot-and-mouth disease had manifested itself in the course of last week on a farm adjoining the showground, and it was feared that this circumstance would militate to some extent against the success of the show. Exhibitors, however, appear to have had every confidence in the precautions used, and very few, if any, cattle which had been entered were withdrawn. The number of cattle contrasted unfavourably with the display last year, the numbers being 119 at Bolton, as compared with 197 at Liverpool. The falling off was noticeable in almost every class; and the number of entries was disappointingly small. Only five all aged Shorthorn bulls were entered. Irrespective of number, however, the entry must be regarded as exceptionally good; as it included the two famous Yorkshire bulls, Mr. Outhwaite's Royal Windsor, and Mr. Linton's Lord Irwin, which stood in the position of first and second at Cardiff, and at every show of consequence held this year. To the surprise of everybody, however, a formidable competitor to these animals was found in a roan, which hitherto has not travelled beyond its native county. This young bull, aged only two years and three months, being ten months younger than its next youthful competitor, at once challenged the attention of the judges. The two animals shown by the Rev. Walter Sneddy, Keel Hall, Newcastle, and Mr. Peter Martin, Chorley, having been summarily put aside, Mr. Linton's bull, Lord Irwin, which stood second at Cardiff against a numerous entry, was set aside for the third place. The judges, Mr. Joseph Culshaw, Towneley, and Mr. Benjamin Baxter, Skipton, had then apparently a difficult task to decide which of the two bulls left before them should obtain the first prize. The merits of the two beasts, the age of Mr. Musgrove's bull being taken into account, were nearly equal. The two bulls were repeatedly walked round the ring, and examined from top to toe, being altogether about three quarters of an hour under inspection. Eventually the judges disagreed, and called in an arbiter, Mr. Thomas Dodds, Wakefield, who, however, declined to act upon his own responsibility, and, with the consent of the judges, obtained the aid of Mr. John Wood, Harewood Hill, Darlington, and Mr. R. H. Masfen, of Pendeford, Wolverhampton,

who were the judges in the sheep classes. The result of the conjoint deliberation of the two was to place Mr. Outhwaite's bull first. Mr. Musgrove's, which took the second place, being only two years and three months old, and little more than qualified in its class, shows grand forequarters and immense thickness round the heart, has a fine level back, and is mellow to touch, and altogether is characterised by fine style and quality. The calling in of the sheep judges gave great dissatisfaction, and it was considered that if Mr. Dodds declined the responsibilities of umpire he should have retired altogether, and so have left the office open to some other person. Mr. Musgrove at once gave in a written protest to the council, in which he refused to submit to the award of the three umpires. The question was postponed until Friday, and the judges were requested not to award the extra prize of a silver cup, valued at £20, offered for the best bull in any class. In the meantime Mr. Morton, of Skelmergh Hall, near Kendal, an extensive breeder of Shorthorns, was telegraphed for, and the council, being of opinion that there was some force in the protest, requested him to act solely as judge for the extra prize, but decided that the award of £18 which had been given to the owner of Royal Windsor should remain undisturbed. Mr. Morton complied with the request of the council, and proceeded on Friday to test the merits of the four bulls entered for competition. Considerable interest was manifested in the judging, and it is a long time since such a searching and critical test was made at any agricultural show. Ultimately he decided in favour of Royal Lancaster, and that animal, therefore, must now be considered the champion bull of England. The majority of those who saw the animals in the ring were of opinion that Mr. Musgrove's bull is worth much more than either of his competitors. Many bets were laid upon the result outside the ring. The next classes presented no difficulty. Although there were five entries in the class of one-year-old Shorthorns, only one bull was shown, Mr. Linton's Leeman, which stood first at Cardiff, and was the undisputed owner of the first prize here. In the class of bull-calves two of the three entries were exhibited which took prizes as follows: 1st, Baron Holker,

a roan calf of good promise, shown by Mr. Edgar Musgrove; and 2nd, the Rev. Walter Sneyd's red and white, Superb. In the class of aged cows there was only one exhibitor out of three entries, viz., Vivandiere, a well known cow, shown by Mr. J. Outhwaite. There was a better entry in the class of heifers above two and under three years old, eight competitors entering the ring. Eventually first honours went to Lady Ann, the notorious double pedigree heifer; and in the class of heifer-calves Mr. Statter was also successful with Rosalbina. The entries of other breeds than Shorthorns were disappointingly small. In the class of Ayrshire cows Mr. T. Statter was the undisputed winner. The class of Channel cattle afforded a better contest; Mr. Statter being again awarded first honours. There was a good show of black Welsh cows, and all the prizes were awarded. In three other open classes no cattle were shown. Shorthorns asserted their superiority to any other breed in the class of bulls above two and under four years old, in which there were eight entries. The first prize was awarded to Mr. C. W. Brierley, Rhodes House, Middleton, for his Prince Charlie. In the class of bulls above one and under two years-old was shown an animal of good style, The Young Panton Squire, the property of Mr. James Goolden, Clay House Hall, Altrincham. A number of local prizes for tenant-farmers in the Bolton Union were offered, which were awarded as follows: Three dairy cows, 1st, V. Rothwell; 2nd, O. Johnson, Lever Edge Farm, Great Lever. Pairs of dairy cows: 1st, R. Dickinson, Foot o'th' Brook, Great Lever; 2nd, Peter Johnson. Single dairy cow: 1st, Peter Johnson; 2nd, R. Dickinson. In another competition, which was extended to any residents in the Bolton Union, the competition was only nominal. Two extra prizes were awarded to Mr. Brierley in the tenants' classes, the first being a £1 silver cup, or a prize worth £20, for the two-year-old Shorthorn Prince Charlie, and a silver cup, or a prize worth £10, for the best cow shown. Mr. Statter was awarded a silver cup, or a prize worth £10, for the white heifer Lady Graceful, which carried off the first prize in the class of yearling heifers.

The horse classes included such well-known "ring-leaders" as Laughing Stock, the best of a bad class of hunter stallions; Young Merry-legs, who won in a short show of roadsters; and Honest Tom, who, of course, beat the chesnut Young Champion in the agricultural section, where throughout the entries were very few—but three or four to a class. There were some clever hackneys, with Mr. Harvey Bayly's Hilda in front, and a sprinkling of ponies. Amongst the brood mares for hunting purposes the competition was close; and the heavy-weight hunter class brought out Borderer, Romeo, Joe Bennett, and Patch; Romeo, more of a brougham horse than a hunter, being put above Borderer amongst the welters; while Eri King figured as the best 12-stone horse, but there was nothing "particular" against him. Indeed, here as throughout, the Bolton meeting was not by any means up to an average.

Sheep were in tolerably good force, the Shropshire Downs more especially. Most of the prizes in this class went to Mrs. Beach and Mr. Coxon. The pigs, as might be expected, in a district made famous by Mr. Peter Eden, were well represented. In the first of the cheese classes, those above 40lbs. weight each, there were ten entries, of which seven were by Cheshire makers. The first prize was awarded to Mr. G. Prescott, Hulgrave, Middlewich, for four very fine samples of coloured cheese, weighing little short of six score each. They appeared to be about eight weeks old. The flavour was excellent, and no one disputed that they fully entitled the maker to bear away not only the award for this class, but the champion prize, which was accordingly given him. The second prize was awarded to Mr. George Willis, of Beech House, Darnhall, Winsford; the four cheeses he showed being about 70lbs. each, and also coloured. Mr. Bulner, of Tattenhall, was an exhibitor, but failed to get anything, and the same has to be said of Mr. Gibbons, of Bath, Mr. John Davies, of Waverton, and others. In the second class there were eight entries, and the chief prize was borne away by Mr. W. Moreton, of Acton Hill, Northwich, who was also an exhibitor in the first-class. The cheeses he showed were of darkish red colour, and as much like bitter American as anything we ever tasted. The second prize was taken by Mr. Prescott, for a fine sample of uncoloured, which really seemed as if it could not be rivalled. Mr. Balmer exhibited a lot which were too heavy to remain in the competition, and Mr. Gibbons also entered in

this class. There was a spirited competition in fresh butter, the plan of giving half the prize to the dairymaid of the successful exhibitor, evidently causing a rivalry amongst those useful members of the community. The first prize was taken by the dairymaid to Mr. Harrison, of Aughton; the second by the dairymaid to the Rev. A. Wright, of Malpas. The implements and machinery embraced no less than 112 stands.

PRIZE LIST.

JUDGES: HORNED CATTLE: J. Culshaw, Townley; B. Baxter, Skipton. CART-HORSES: J. H. Wood, Humberson, Lincolnshire; T. Gibbons, Burnfoot, Longtown. LIGHT HORSES: G. Clay, Wem, Salop; W. S. Atkinson, Leeds; W. Forster, jun., Burradon. SHEEP: J. Wood, Harewood-hill, Darlington; R. H. Masfen, Pendeford, Wolverhampton. PIGS: T. Dodds, Wakefield; R. H. Watson, Wigton. CHEESE AND BUTTER: C. Griffiths, Northwich; J. Jennison, Manchester. GRAIN AND ROOTS: J. Hornby, Minshall, Middlewich; G. Halsall, Halewood. IMPLEMENTS: M. Scott, Tranmere; Mr. Smith, Whitechurch, Salop; Mr. Whalley, Bold, Warrington; Mr. Scotson, Aigburth, Liverpool.

CATTLE.

SHORTHORNS.

Bull above two and under four years old.—First prize, J. Outhwaite, Bainesse, Catterick; second, E. Musgrove, Aughton, Ormskirk.

Bull above one but under two years old.—Prize, W. Linton, Sheriff Hutton, York.

Bull-calf above six but under twelve months old.—First prize, E. Musgrove; second, Rev. Walter Sneyd, Keele Hall, Newcastle.

Cow above three years old, in milk or in calf.—Prize, J. Outhwaite.

Heifer above two but under three years old.—First prize, T. Statter, jun., Stand Hall; second, J. P. Haslam, Gilnow House, Bolton.

Heifer-calf above six but under twelve months old.—First prize, T. Statter, jun.; second, Rev. W. Sneyd.

Special prize for best of all the Shorthorns, E. Musgrove.

OTHER BREEDS.

Ayrshire cow or heifer above two years old, in milk or in calf.—First and second prizes, T. Statter, jun.; third, T. Rigby, Darnhall Mill Farm.

French or Channel Islands cow or heifer above two years old, in milk or in calf.—First prize, T. Statter, jun.; second and third, A. Rigg, Little Woolton, Liverpool.

Welsh cow or heifer above two years old, in milk or in calf.—First and second prizes, R. Humphreys, Beddgelert, Carnarvonshire; third, G. Jones, Mold.

French or Channel Islands bull, of any age.—Prize, A. Rigg.

Welsh bull, of any age.—Prize, R. Humphreys.

Cow or heifer above two years old, in any of the foregoing classes.—Extra prize, Silver Cup or £10, J. Outhwaite (cow).

Heifer or heifer-calf, under two years old, in any of the foregoing classes.—Extra prize, Silver Cup or £10, T. Statter, jun. (heifer-calf).

Bulls above two years old and under four, any breed, for tenant farmers resident in the Society's district only.—First prize, C. W. Brierley, Rhodes House, Middleton; second, T. Statter, jun.; third, W. Tillotson, Marsden Hall, Nelson, near Burnley.

Bull above one but under two years old.—First prize, J. Goolden, Hale, Altrincham; second, C. W. Brierley; third, H. Neild, Worsley.

Bull-calf above six but under twelve months old.—First prize, R. Thompson, Mythrop Lodge, Blackpool; second, C. W. Brierley; third, H. Neild.

Cow for dairy purposes, in milk or in calf.—First prize, T. Statter, jun.; second, H. Neild; third, J. Cheetham, Yew Tree Farm, Norbury.

Pair of cows for dairy purposes, in milk or in calf.—First prize, T. Statter, jun.; second, A. Wardle, Bury; third, J. Kenwright, Tarbock, Prescott.

Pair of heifers, above two but under three years old.—First prize, C. W. Brierley; second, T. Statter, jun.; third, H. Neild.

Single heifer, above two but under three years old.—First

prize, J. Goolden; second, T. Statter, jun.; third, C. W. Brierley.

Pair of heifers, above one but under two years old.—First prize, C. W. Brierley; second, J. Goolden; third, N. Rothwell, Great Leaver, Bolton.

Single heifer, above one but under two years old.—First prize, T. Statter, jun.; second, J. P. Haslam; third, S. Ashton, Manor Farm, Timperley.

Pair of heifer-calves, of exhibitor's own rearing, under months old.—First prize, C. W. Brierley; second, H. Neild; third, T. Statter, jun.

Lot of three dairy cows, in milk or in calf, for tenant farmers resident in the Bolton union only.—Local prizes—First prize, N. Rothwell; second, P. Johnson, Lever Edge Farm, Great Lever.

Pair of dairy cows, in milk or in calf.—First prize, P. Johnson; second, R. Dickenson.

Single dairy cow, in milk or in calf.—First prize, P. Johnson; second, R. Dickenson.

Lot of three dairy cows in milk or in calf, for residents in the Bolton union.—Prize, P. Johnson.

Bull above two years old.—First prize, S. Crewther, Hardham Fold, Great Lever, Bolton-le-Moors; second, J. P. Haslam, Bolton.

Bull in classes 18, 19, 20, and 34.—Extra prize, Silver Cup or £20, C. W. Brierley.

Cow or heifer, above two years old, in any of the foregoing classes.—Extra prize, Silver Cup or £10, C. W. Brierley.

Heifer or heifer-calf, under two years old, in any of the foregoing classes.—Extra prize, Silver Cup or £10, T. Statter, jun.

HORSES.

Stallion, thorough-bred, for weight-carrying hunters.—First prize, J. Moffatt, Kirklington Park, Carlisle; second, A. Lund, Darcy Lever, Old Hall, Bolton.

Stallion, for carriage or road purposes.—First prize, J. Gill, Silsden, near Leeds; second, Lund and Redmayne, Castle Hotel Yard, Preston.

Stallion, for draught purposes.—First prize, the Fylde Cart Horse Improvement Company, Poulton-le-Fylde; second, T. Statter, jun.

Stallion colt, draught breed, foaled in 1870.—First prize, F. T. Bryan, Hunterstone, Leicester; second, T. Statter, jun.

Stallion colt, draught breed, foaled in 1871.—Prize, T. Statter, jun.

Draught mare or gelding, above four years old.—First and second prizes, C. W. Brierley.

Three-year-old gelding or filly, cart breed.—First prize, J. Wright, Tarleton Holmes, Preston; second, T. Statter, jun.

Two-year-old gelding or filly, cart breed.—First prize, T. Statter, jun.; second, J. Wright.

One-year-old gelding or filly, cart breed.—Prize, R. Hunt, Much Hoole, Preston.

Three-year-old gelding or filly, half-bred.—Prize, T. Pearson, Lostock Grange, Leyland, Preston.

Two-year-old gelding or filly, half-bred.—First prize, T. H. Miller, Singleton, Poulton-le-Fylde; second, W. Clegg, Fairhurst, Goosnargh, Preston.

One-year-old gelding or filly, half-bred.—First prize, T. H. Miller; second, J. R. De Trafford, Croston Hall, Preston.

Brood mare, for hunters.—First prize, S. Kirby, Manchester; second, T. H. Miller.

Brougham gelding, above four years old.—First prize, T. Gidlow, Heaton, near Bolton; second, P. Nightingale, Worsley.

Roadster mare or gelding, above 14 hands 2 inches.—First prize, W. Hargreaves, Darley Hall, Farnworth; second, T. H. D. Baily, Edwinstowe House, Ollerton, Notts.

Cob mare or gelding, above 13 hands 2 inches and under 14 hands 2 inches.—First prize, G. and T. Quentin, Woodleigh, Cheltenham; second, J. Wright, St. Helens.

Pony mare or gelding, above 12 hands 2 inches and under 13 hands 2 inches.—First prize, W. S. Gladstone, Liverpool; second, T. Statter, jun.

Pony mare or gelding, under 12 hands 2 inches.—First prize, J. C. Rogerson, Manchester; second, T. Statter, jun.

Hunter mare or gelding, up to 14 stone.—First prize, B. Goodall, Altrincham; second, J. P. Cross, Mortfield; third, J. Bredin, Liverpool.

Hunter mare or gelding, the property of any past or present

member or secretary of the Aspull or Holcombe Hunt, and which has been hunted in the preceding season.—First prize J. P. Cross; second, S. Hollins, Astley Bridge.

Brood mare, for draught purposes.—First and second prizes, T. Statter, jun.; third, J. W. Holt, Wood Road, Bury.

Pair of draught horses, mares or geldings.—First prize, C. W. Brierley; second, Statter, jun.

Pair of agricultural horses, mares or geldings.—First prize, P. Johnson; second, H. Neild.

Three-year-old gelding or filly, cart breed.—First prize, W. Birch, Aintree; second, C. H. Wolff, Hale, Altrincham.

Two-year-old gelding or filly, cart breed.—First prize, T. Statter, jun.; second, J. Waterworth, North Ashton, near Wigan.

One-year-old gelding or filly, cart breed.—First prize, H. Neild; second, J. W. Holt.

SHEEP.

LEICESTERS.

Shearling ram.—First and second prizes, T. H. Hutchinson, Manor House, Catterick.

Ram of any other age.—First and second prizes, T. H. Hutchinson.

Rem lamb.—First and second prizes, T. H. Hutchinson.

Three shearling ewes.—First and second prizes, T. H. Hutchinson.

Three ewes of any age, having reared lambs this year.—First and second prizes, T. H. Hutchinson.

Three ewe lambs.—First and second prizes, T. H. Hutchinson.

SHROPSHIRE DOWNS.

Shearling ram.—First prize, Sarah Beech, The Hattons, Brewood, Staffordshire; second, W. German, Measham Lodge, Atherstone.

Ram of any other age.—First prize, Sarah Beech; second, Lord Wenlock, Escrick, York.

Ram-lamb.—First prize, W. Baker, Moor Barns, Atherstone; second, Sarah Beech.

Three shearling ewes.—First prize, J. Coxon, Freeford Farm, Lichfield; second, Sarah Beech.

Three ewes of any age, having reared lambs this year.—First prize, W. Baker; second, Sarah Beech.

Three ewe lambs.—First prize, Sarah Beech; second, J. Coxon.

CHEVIOTS.

Three shearling ewes.—First and second prizes, T. Rigby, Darnhall.

ANY OTHER BREED OR CROSS BREED.

Shearling ram.—Prize, T. Rigby.

Ram of any other age.—Prize, H. Neild.

Three shearling ewes.—Prize, J. Gill, Howden Park, Silsden, Leeds.

Three ewes of an age, having reared lambs this year.—First and second prizes, T. Rigby.

Five tup lambs, shown as extra stock.—Medal, T. Rigby.

PIGS.

Boar of large white breed, above one year old.—First prize, P. Eden, Cross Lane, Salford; second, M. Walker, Stockley Park, Onslow; third, R. E. Duckering, Northorpe, Kirtton Lindsey.

Breeding sow, large white breed, above one year old.—First prize, P. Eden; second, R. E. Duckering.

Boar, large white breed, under one year old.—First prize, R. E. Duckering; second, M. Walker; third, J. Kenyon, Brighton-street, Red Bank, Manchester.

Pair of sows, white breed, under one year old.—First prize, P. Eden; second, C. R. N. Beswicke-Royds, Pyke House, Littleborough; third, R. E. Duckering.

Boar, small white breed, above one year old.—First prize, P. Eden; second, C. R. N. Beswicke-Royds; third, R. E. Duckering.

Breeding sow, small white breed, above one year old.—First and second prizes, C. R. N. Beswicke-Royds; third, P. Eden.

Boar, small white breed, under one year old.—First prize, R. E. Duckering; second, A. Rigg, Little Woolton, Liverpool; third, P. Eden.

Pair of sows, white breed, under one year old.—First prize, P. Eden; second, C. R. N. Beswicke-Royds; third, R. E. Duckering.

Boar, middle breed, above one year old.—First prize, C. R.

N. Beswicke-Royds; second, J. E. Fox, Mansion House, Great Horton, Bradford. Extra prizes: P. Eden, and C. Morris, Holmleigh, Grassendale, Aigburth.

Breeding sow, middle breed, above one year old.—First prize, P. Eden; second, W. Parker, Golden Lion Hotel, Bradford; third, P. Eden.

Boar, middle breed, under one year old.—First prize, P. Eden; second, J. Bullock, Bradford; third, R. E. Duckering.

Pair of sows, middle breed, under one year old.—First prize, R. E. Duckering; second, W. Lancaster, Halifax; third, P. Eden.

Boar, Berkshire breed, above one year old.—First prize, T. Radcliffe, Cheswell Grange, Salop; second, Lord Wenlock; third, S. Church, Bolton-le-Moors.

Breeding sow, Berkshire breed, above one year old.—First prize, C. Morris; second, J. Garnett, The Grange, Bolton; third, R. E. Duckering.

Litter of nine Berkshire pigs, extra stock.—Medal, C. Morris.

Boar, improved Essex, above one year old.—First prize, C. R. N. Beswicke-Royds; second, R. E. Duckering; third, M. Walton, Halifax.

Breeding sow, improved Essex, above one year old.—First prize, C. R. N. Beswicke-Royds; second, M. Walton; third, A. R. Rigg.

Nine store pigs, extra stock.—Medal, M. Walton.

Boar, under one year old (local prizes for residents in the Bolton union only).—First and second prizes, H. Speakman, Bolton.

Breeding sow, any age.—First prize, W. Atkinson, Bolton; second and third, T. Nuttall, Farnworth.

Boar, under one year old.—Prize, M. A. Platt, Stag's Head Inn, Runworth, Bolton.

Breeding sow, any age.—First prize, W. Sutcliffe, North View, Tonge, Bolton; second, E. Cannon, Greenhill Deane, Bolton.

GRAIN AND ROOTS.

GROWN BY EXHIBITORS IN 1872.

White wheat, not less than two bushels.—First prize, T. Hodson, Edleston Farm, Nantwich; second, T. Rigby, Darnhall Mill Farm, Cheshire.

Yellow or red wheat, not less than two bushels.—First prize, T. Rigby; second, R. Halsall, Halewood, Liverpool.

Any variety of white oats.—First prize, F. Lythall, Banbury; second, J. Southern, Culchet.

Any variety of yellow oats, not less than two bushels.—First prize, R. Halsall; second, H. Neild.

Black oats, not less than two bushels.—First prize, H. Neild; second, R. Halsall.

Any variety of barley, not less than two bushels.—First prize, J. K. Fowler, Prebendal Farm; second, J. Greatorex, Stretton, Burton-on-Trent.

Any variety of beans, not less than two bushels.—First prize, J. K. Fowler; second, F. Lythall, Spittal Farm, Banbury.

Six roots of Swedish turnips of any kind.—First prize, W. Birch, Aintree; second, J. Southern.

Six roots of any other kind of turnips.—First prize, J. Greatorex; second, H. Neild.

Six roots of long red mangel wurzel.—First prize, J. J. Malden, Biggleswade, Beds; second, J. K. Fowler.

Six roots yellow mangel wurzel.—Prize, J. K. Fowler.

Six roots of any kind of globe mangel wurzel.—First prize, J. K. Fowler; second, J. J. Malden.

Two Scotch cabbages.—Prize, J. Southern.

Samples of twenty round potatoes, kind to be stated on entry.—First prize, H. Simcock, Barton Moss, Patricroft; second, J. K. Fowler.

Samples of twenty flat potatoes, kind to be stated on entry.—First prize, J. Southern; second, J. K. Fowler.

Collection of farm produce of any kind, the *bona fide* growth or manufacture of exhibitor.—First prize, J. Southern; second, H. Simcock. Medal for extra stock, Mrs. W. Patterson, Dundee.

CHEESE.

Lot of four cheeses, about 40lb. weight each.—First prize, G. Prescott, Hulgrave, Middlewich; second, G. Willis, Beech House, Darnhall, Winsford.

Lot of four cheeses, under 40lb. weight each.—First prize, W. Moreton, Acton Hill, Northwich; second, G. Prescott.

Best lot in the exhibition, irrespective of weight.—Prize, G. Prescott.

FRESH BUTTER.

Six half-pounds, production of exhibitor's own dairy.—First prize, T. Harrison, High House, Aughton, Ormskirk; second, Rev. A. Wright, Tilston Rectory, Malpas; third, H. Neild, Worsley; fourth, R. Taylor, Barkhill Farm, Aspull.

SEEDS.

Stands of farm and garden seeds, grain, and roots.—Prize Messrs. Carter, Dunnett, and Beale, London.

IMPLEMENT.

Agricultural machinery, in motion, best arranged, £4 and silver medal.—Pickles, Sims, and Co. (Limited), Leigh; second, Warburton, Preston.

Collections of farm implements and tools.—1st, Follows and Bate, Manchester; 2nd, J. S. Warburton.

Articles of domestic use, best assorted.—1st, Follows and Bate, Manchester.

Articles in slate, best assorted.—1st, Belcher, Gee, and Co., Gloucester; 2nd, L. Ford, Gloucester.

Stand of carts, waggons, and drays.—£3 and silver medal.—H. Bracewell, Burnley.

Stand of carriages, whitechaps.—C. S. Windover, London. Assortment of stable and cow-house fittings.—Musgrave Brothers, Belfast.

Wagon for farming purposes.—H. Bracewell, Burnley.

Horse cart, for general farm purposes.—D. Grundy, Farnworth.

One-horse cart for general farm purposes.—Warburton Preston.

J. Howarth, Farnworth, silver medal for ventilators.

Taylor and Wilson, Accrington, silver medal for washing machines.

Hornsby and Sons, Grantham, silver medal for agricultural implements.

Morton and Co., Liverpool, silver medal for self-locking bar-iron fencing.

Lewis and Co., Shrewsbury, highly commended for agricultural implements.

Marsden, Leeds, a silver medal for Blake's stone-breaker and ore-crushing machine.

Richmonds, Colne, highly commended for double-tankard carriage.

The Singer Sewing Machine Company, gold medal.

Sugden, Market-street, Bolton, silver medal for sewing machine, and silver medal and £5 for tailoring machine.

Whewell, Deansgate, Bolton, highly commended for sewing machine.

Hancock, Dudley, highly commended for bread machine.

Silvester, London, highly commended for American pocket scale.

Pearson, Liverpool, silver medal for linseed cake.

Entwistle, Bark-street, Bolton, silver medal for harness.

Slack and Brownlow, Manchester, silver medal for filters.

Walkden, Newport-street, Bolton, silver medal for stand of carts and removal waggons.

T. W. Inwood, St. Alban's, silver medal for carriages.

Farr, Pagefields, Wigan, highly commended for carriages.

HERTS AGRICULTURAL SOCIETY.—The prizes for root crops are awarded as under: £20 to the tenant-farmer, renting not less than 150 acres arable land, for best and cleanest root crop, not less than one-sixth of his arable land, offered by Lord Dacre to Mr. J. C. Allen. £10 to the tenant-farmer, renting 150 acres arable land, for next best and cleanest general root crop, same conditions, offered by the Society, Mr. Frederick Allwood; highly commended, Mr. George Underwood. For the prize of £10, best roots, 80 to 150 acres of arable land, and £5 for second best crop; there were no competitors for either. £5 to tenant-farmer, of not less than 80 acres arable land, for best four acres of mangold wurzel; if more than four acres grown, the whole crop to be shown; offered by the Society, Mr. J. Ransome. £5 to tenant-farmer, not less than 80 acres arable land, for the best four acres kohlrabi; if more than four acres grown the whole crop to be shown; offered by Messrs. Sharples and Co., Mr. W. Hainworth.

PENRITH AGRICULTURAL SOCIETY.

This was a surprisingly good show, when the condition of the district in regard to the prevalent murrain is considered. The Shorthorns were equal to those of any other county show this year; and though Edgar and Ignoramus are no longer here, the stock as a whole were quite worthy of the locality. In most shows, even in the best times, the weak point is the bulls, but on this occasion this could not be said. Flag of Britain, a capital animal, first in his class, won Mr. Musgrave's cup. The two-year prize bull is also good; and Laurestina was first among a fine lot of cows. But no animal on the ground exceeded in promise Mr. J. C. Toppin's yearling heifer, bred by Mr. Unthank, which was first in its class, and also got the silver cup for the best female on the ground. The cart horses were a large entry, and were in quality fair throughout, except in the class of mares in foal, which were mediocre. Messrs. Bowstead and Lamb's brown mare, third at Cardiff, was first for mares with foal at foot. Colonel Rigg, Mr. Kitchen (of Thomas Close), Mr. Pattinson Young, and Mr. Routledge (of Berrier) got first prizes in the heavy horse department. In the saddle and harness classes the entries were good throughout, and the merit conspicuous, especially among the young horses. Mr. Lawrence Harrison won the hackney prize; while Sir H. Vane's premium for the best three-year-old gelding or filly called out a capital and numerous competition. The prize went to Mr. Isaac Bainbridge, of Rigg Dyke, for a bay gelding by Kingfisher; and Mr. Irving, of Shap Abbey, was commended. Mr. Thompson's premium for the best cob was also well contested; and the sweepstakes for the best hunter was won by Mr. Fearon's Romeo, next to him being the Naworth Baby. The sheep were a good class, and there was a large exhibition of implements.

PRIZE LIST.

JUDGES.—**SHORTHORNS AND PIGS:** J. Culshaw, Towneley Park, Burnley; T. Willis, Capesby, Yorkshire. **SHEEP:** H. Borton, Barton House, Malton; J. Hutchinson, Manor House, Catterick. **HUNTING AND HARNESS HORSES:** J. Blackstock, Hayton Castle; J. Booth, Kilerby Hall, Catterick. **AGRICULTURAL HORSES:** A. Dalzell, Stainburn Hall; B. Spraggon, Nafferton. **BLACK-FACED MOUNTAIN SHEEP:** W. Bownaas, Middleton Hall, Kirby Lonsdale; T. Birkbeck, Shap Fells. **BUTTER:** C. Atkinson, Pooley Bridge; J. Shields, Kirbythore.

SHORTHORNS.

Bull.—First prize, J. C. Bowstead, Hackthorpe Hall; second, R. Taylor, Crosby Lodge. Commended: Messrs. Cookson and Strickland, Low Abbey.

Bull, above two and under three years.—First prize, Sir G. Musgrave, Bart., Eden Hall; second, John Bousfield, Soulby. Commended: Sir G. Musgrave.

Bull, above one and under two years.—First prize, J. C. Toppin; second, A. McDougall, Penrith. Commended: J. Nicholson, Kirbythore Hall.

Cow.—First prize, J. Lamb, Burrell Green; second, J. Hutchinson, Brougham Castle. Highly commended: Sir G. Musgrave. Commended: J. Nicholson.

Heifer, above three and not exceeding four years.—First prize, J. Faider, Winkill; second, J. C. Bowstead. Commended: J. C. Toppin.

Two-year-old heifer.—First prize, R. Thompson, Inglewood Bank; second, Sir G. Musgrave.

One-year-old heifer.—First prize, J. C. Toppin; second, J. Richardson, Culgaith. Commended: James Close, Lingstubs.

Three dairy cows of any breed, in calf or milk.—First prize, James Close; second, J. Nicholson, Kirbythore Hall. Commended: H. Newby Fraser, Hay Close.

Pair of two-year-old bullocks.—Prize, R. Thompson, Inglewood Bank.

Pair of yearling bullocks.—Prize, J. C. Toppin.

Bull-calf under twelve months (Sweepstakes).—First prize, H. Thompson, Maiden Hill; second, R. G. Pears, Penrith.

Heifer-calf under twelve months (Sweepstakes).—First prize, J. Lamb, Burrell Green; second, James Close, Lingstubs.

Bull-calf under six months (Sweepstakes).—First prize, J. C. Toppin; second, G. Smith, The Luham.

Heifer-calf under six months (Sweepstakes).—Prize, J. C. Toppin.

Best Shorthorn bull in the yard.—Silver cup, Mr. Bowstead (Flag of Britain). Commended: J. C. Toppin and Sir George Musgrave.

Best Shorthorn cow or heifer on the ground.—Silver cup, J. C. Toppin. Commended, in two cases: J. Lamb.

HORSES.

CART-HORSES.

Brood mare, with foal at foot.—First prize, Messrs. Bowstead and Lamb; second, Colonel Rigg, Crossrigg Hall. Commended: J. Nicholson, Kirbythore Hall.

Brood mare, to have produce the ensuing season.—First prize, T. Kitching, Thomas Close; second, H. Sayer, Close House. Commended: J. Denuison, Penrith Station.

Two-year-old gelding or filly.—First prize, W. Routledge, Berrier; second, Mrs. Relph. Commended: W. Hetherington, Penrith.

One-year-old gelding or filly.—First prize, Colonel Rigg; second, J. Robinson, Askham. Commended: T. Kitching.

Pair of draught horses (Sweepstakes).—First prize, P. Young, Scaws; second, Colonel Rigg. Commended: J. Relph, Fog Close.

Three-year-old gelding (Sweepstakes).—First prize, Colonel Rigg; second, G. Waugh, Greenagh Crag.

Foal (Sweepstakes).—First prize, J. Sarjeant, Lowther Low Moor; second, Messrs. Bowstead and Lamb.

Mare or gelding of any age (Sweepstakes).—First prize, Messrs. Bowstead and Lamb; second, J. Relph.

HARNESS HORSES.

Brood mare with foal at foot.—First prize, T. Kitching; second, T. Little, Lazonby. Commended: Admiral Elliott, Appleby Castle.

Two-year-old gelding.—First prize, T. Little; second, W. R. Mounsey, Lowther. Commended: J. Robinson, Askham Hall.

Two-year-old filly.—First prize, J. H. Cumpston, Barton Hall; second, G. Smith. Commended: G. Donaldson, Baldhow.

One-year-old gelding.—First prize, J. C. Bowstead, Hackthorpe Hall; second, Colonel Rigg. Commended: Colonel Brougham, Laithes.

One-year-old filly.—First prize, T. Little; second, T. Sowerby, Unthank.

HUNTING HORSES.

Brood mare, with foal at foot.—First prize, Admiral Elliott; second, H. Sayer, Close House. Commended: J. C. Bowstead.

Brood mare, to have produce the ensuing season.—First prize, J. Nicholson; second, J. Bell, Scale Hill. Commended: J. Betham, Towett.

Two-year-old gelding.—First prize, L. Harrison, Penrith; second, A. Johnstone, Catterlen. Commended: Colonel Brougham.

Two-year-old filly.—First prize, J. H. Cumpston, Barton Hall; second, Messrs. Cookson and Strickland, Low Abbey.

One-year-old gelding.—First prize, J. Pattinson, High Dyke; second, J. Dent, Edenhall Grange.

One-year-old filly.—First prize, W. Bowman, Askham; second, J. Spencer, Murrah Hall. Commended: J. C. Bowstead.

Three-year-old gelding or filly, by a thoroughbred horse.—Prize, I. Bainbridge, Rigg Dyke. Commended: J. Irving, Shap Abbey.

Cob.—First prize, R. Pattinson, Penrith; second, the Earl of Lonsdale. Commended: W. S. Fulton, Appleby.

Hackney, rising four years old or upwards (Sweepstakes).

—First prize, L. Harrison, Penrith; second, W. Warwick, Hutton End.

Pony, not exceeding 13½ hands, nor less than three years old (Sweepstakes).—First prize, J. Birket, Broomrigg; second, the Hon. C. Lowther, Lowther Castle. Highly commended: J. Lowthian, Winder Hall. Commended: J. Hullock, Brigham Bank.

Foal by a thoroughbred horse (Sweepstakes).—Prize, T. Kitching. Commended: J. C. Bowstead.

Hunter, to go over on the show ground four hurdles three times round (Sweepstakes).—First prize, J. Fearon, Whitehaven; second, J. G. Grey, Naworth. Commended: J. Fearon.

Jumping.—First prize, Mr. Simmons (Smuggler Bob); second, Mr. Bowstead.

SHEEP.

LEICESTERS.

Challenge cup, value 5 guineas, for ram of any age.—First prize, R. Thompson, Inglewood Bank; second, J. B. Dixon, Templesowerby.

Tup, being an approved stock-getter.—First and second prizes, J. Bell, Scale Hill. Commended: J. Hogarth, Julian Bower.

One-shear tup.—First and second prizes, and commended, J. Bell.

Pen of three ewes.—First prize, J. Bell; second, W. Sisson, Templesowerby. Commended: J. Hogarth.

Pen of three gimmer shearlings.—First and second prizes, J. Bell. Commended: J. Hogarth.

Tup lamb (Sweepstakes).—Prize, W. Sissons.

BORDER LEICESTERS.

Tup.—First prize, Colonel Rigg; second, H. N. Fraser, Hay Close.

One-shear tup.—First prize, J. Pickering, Ranbeck; second, J. Hogarth. Commended: Colonel Rigg.

Pen of three ewes.—First and second prizes, H. N. Fraser. Commended: Colonel Rigg.

Pen of three gimmer shearlings.—First prize, H. N. Fraser; second, J. Thom, Kirbythore. Commended: Colonel Rigg.

Tup lamb (Sweepstakes).—Prize, J. Thom. Commended: H. N. Fraser.

Pair of gimmer lambs (Sweepstakes).—Prize, H. N. Fraser. Commended: Colonel Rigg.

LONGWOOLS.

Tup.—First prize, J. and W. Savage, Hanging Bank; second, J. Hogarth. Commended: Messrs. Cookson and Strickland, Low Abbey.

One-shear tup.—First and second prizes, Messrs. Cookson and Strickland. Commended: Colonel Rigg.

Pen of three ewes.—Prize, J. Hogarth.

Pen of three gimmer shearlings.—First prize, J. and W. Savage; second, J. Hogarth.

DOWN.

Tup, more than one-shear.—First prize, J. Hogarth; second, H. N. Fraser.

Pen of three ewes.—First prize, T. Todd, Newbiggen; second, J. Hogarth. Commended: T. Todd.

Tup lamb (Sweepstakes).—Prize, T. Todd.

Pair of gimmer lambs (Sweepstakes).—Prize, T. Todd.

BLACKFACED MOUNTAIN SHEEP.

Tup.—First prize, M. Towers, Swindale; second, J. Dargue, Bow Hall. Commended: J. Shepherd, Ousby.

Shearling tup.—First prize, C. Armstrong, Alston; second, M. Towers. Commended: J. Shepherd.

Pen of three ewes.—First prize, C. Armstrong; second, G. Carruthers, Gale Hall. Commended: H. Sayer, Close House.

Pen of three gimmer shearlings.—Second prize, H. Sayer.

Blackfaced tup lamb (Sweepstakes).—Prize, C. Armstrong. Commended: G. Carruthers.

Pair of blackfaced gimmer lambs.—Prize, C. Armstrong.

PIGS.

Boar.—First prize, J. Collin, Penrith; second, and commended, J. Pattinson.

Breeding sow.—First prize, M. Robinson, Wetheriggs; second, and commended, J. Collin.

Fat pig, under 18 months old, being the bonâ fide property

of an agricultural labourer or cottager, working for wages.—First and second prizes, W. Martin, Penrith. Commended: J. Peacock, jun., Edenhall.

BUTTER.

Firkin.—First prize, Mrs. Brunskill, Riggindale; second, Mrs. Green, Motherby. Commended: Mrs. Lancaster, Catterlen Hall.

Basket, containing 10 pounds.—First prize, Mrs. Millicat, Johnny; second, Mrs. Green. Commended: Mrs. Brunskill.

ESSEX AGRICULTURAL SOCIETY.

At a meeting of the committee held at Chelmsford, Mr. J. R. Vaizey in the chair, a question arose with reference to the second prize for yearling Shorthorn bulls at the Halstead Show. The prize was awarded to Mr. Thos. Cousins, but at the last committee-meeting Mr. Pigott contended that Mr. Cousins' bull was disqualified on account of want of pedigree, and it was then agreed that a satisfactory pedigree be produced before the prize-money was paid. Letters were now read from Mr. Huckle and Mr. Upson, in which the former set forth at full length the pedigree of the animal, but Mr. Pigott having compared the dates given with *Coates' Herd Book*, it was shown that they were incorrect. It was agreed that the prize be withheld, and that it be given to Mr. John Hutley's bull, which had been "reserved and highly commended," on condition that a satisfactory pedigree be shown.

The next business was to consider the case of Mr. Isaac Rist, of Tattingstone, whose horse took the Walden town-prize, subject to travelling conditions; he having sold the horse without reference to his obligation to travel in 1873. The secretary said seeing it stated in the papers that Mr. Rist had sold his horse, he wrote to him on the subject, and received a reply, stating that he had sold it to Sir Shafto Adair for 250 guineas. He then again wrote to Mr. Rist, informing him that the horse ought not to have been sold without the obligation resting upon it being conveyed to Sir Shafto Adair, and to that letter he had received no reply. This was the second time Mr. Rist had evaded the conditions connected with this prize, and he had, therefore, thought it ought to be brought before the committee, or nothing practical would come of the competition. The prize has been withheld.

Mr. C. P. Wood moved that Mr. Rist be not allowed to compete at any future shows. A letter had been received from that gentleman, in which he made use of the objectionable observation that the town of Walden was sufficiently rewarded by having a look at the animal. He would move that, as Mr. Rist had on two occasions violated the conditions he had bound himself to observe, the secretary be instructed to receive no more entries in future from that gentleman.

Mr. WHITLOCK said he was prepared to second the proposition, but he should like a little more time to be given, to see if the arrangement might not be carried out.

The CHAIRMAN said it was possible the conditions might yet be fulfilled, and perhaps, therefore, it would be better to wait.

Mr. R. CHRISTY did not see that there was anything for them to discuss. If Mr. Rist claimed the money, then would be the time to consider the matter; but if a gentleman found it to be to his interest to forfeit the prize-money, they had nothing to do with it. He had always said that the travelling-prizes would not answer, and this case showed that they could not get a good horse to travel for £25.

Mr. WOOD withdrew his motion, and of course the matter dropped.

The letter read at the last meeting from the secretary to the Norfolk Society, with reference to the Prince of Wales's suggestion to amalgamate the Eastern Counties Associations, then came on for consideration.

It was agreed that Mr. Emson be instructed to write to the secretary of the Norfolk Society informing him that the committee were unanimous against the proposed alteration.

The next business was to consider if any, and what, steps shall be taken with a view to memorialize the Council of the Royal Agricultural Society to hold their show of 1874 in the county of Essex.

Mr. PIGOTT said it was no use the Society taking it up till some town had moved in the matter, and the subject dropped.

MANCHESTER AND LIVERPOOL AGRICULTURAL SOCIETY.

At the trial of implements, at Newton Hall Farm, Newton Bridge station, the principal feature was the competition of potato diggers, for which the Society offered a prize of £20, it being stipulated that in this and in all other classes, if the implements did not possess "some meritorious improvement over any of the same class before exhibited," the judges should have power to withhold the prizes, or some portion of them. For potato-diggers, there were eight competitors, Law, Duncan, and Co., of Shetleston, Glasgow, exhibiting two implements, and the following one each: Coleman and Morton, Chelmsford; Corbett and Sons, Wellington; Halsall, Eccleston; Lewis, Sandbach; Higson, Salford; and Hunter, of Maybole, Ayrshire. For the best ridge plough for making two drills at once, for a prize of £10, there were two entries, but only one competition: Harkes, of Knutsford. There had been ten entries of implements for ploughing or otherwise preparing land for sowing wheat or other grain by one operation, and the following competed: Corbett and Sons (two implements), Halsall, Lewis, and Higson. In the trial, Higson, who was working one of Howard's ploughs, finding that his entry was not working satisfactorily, withdrew from the trial. The others continued to the close of the competition, and some excellent work was performed, the implements of the winners—Corbett and Sons; and Lewis, of Sandbach, who had adapted his invention to one of Ransome and Sims' ploughs—receiving much commendation. The implement exhibited by Halsall, of Eccleston, was of novel construction; three "fingers" cutting into the furrows on a very simple principle. The implement was not, however, so complete in its operation as the others. A prize of £5 was offered for the best drag-harrow most useful as a cultivator, and there were three competitors. All were present, but Coleman and Morton showed a cultivator which the judges did not think answered the description of a drag-harrow, and it was consequently thrown out of the description. The other exhibitors were Harkes and Higson. Two entries had been made of potato planters, the Society offering a premium of £5 in this department. Coultas, of Grantham, was the only exhibitor, his implement opening the ridges by means of a pair of ridging ploughs, and dropping the potatoes from small buckets or cups attached to an endless chain, placed on three pulleys, fixed at the points of a triangle. At the same time, the implement distributes any required quantity of artificial manure, and covers the potatoes at one operation, without injuring the sets. Coultas was also the only exhibitor in the class of "implements for distributing guano and other artificial manures broadcast or on the surface." The prize offered was £5, and there had been two entries. Coultas' implement was stated to be capable of distributing from $1\frac{1}{2}$ cwt. per acre to 10 cwt. It consists of a revolving barrel for delivering the manure, which is first put into a hopper and then fed into the barrel by a cross action stirrer, which can be so regulated as to deliver any quantity. The judges had power to give prizes to the amount of £20 to any "new or improved implements for cultivation of land, or that are useful in agriculture." There was only one exhibitor in this department—Parkes, of Northwich, who showed an implement, combining a double-furrow plough and a subsoil plough. The following is a list of the awards:

JUDGES.—Mr. Scotson, of Aigburth; Mr. Walley, of Bold; Mr. Scott, of Tranmere; and Mr. J. T. Smith, of Whitechurch.

Potato digger.—Prize £5, and Society's silver medal, Corbett and Sons, Wellington (combined ridge and potato raising plough). Highly commended: Law, Duncan and Co., of Glasgow.

Ridge plough, for making two drills at once.—Prize, £5, D. Harkes, Knutsford.

Implement which prepares land for sowing wheat or other grain at one operation.—First prize, £5, Corbett and Sons; extra prize, £3, G. Lewis, Sandbach. Highly commended: J. Halsall, Eccleston.

Potato-planter.—Prize, £5, J. Coultas, Grantham.

Implement for distributing manure.—Prize £5, J. Coultas.

The judges made no award in the department where £20 was placed at their disposal, for premiums for special improvements.

TRIAL OF REAPING MACHINES.

A competition of reaping machines, under the auspices of the Royal Northern Agricultural Society, has just taken place on the farm of Waterton, Ellon. The competition was an open one for all machines, including those set aside for trial at the recent show of the Society at Aberdeen. There were eight entries of the one-horse manual delivery machine, but only six appeared for trial. Eight two-horse manual delivery machines started, and five self-delivery machines. The judges were—Messrs. J. W. Barclay, Auchlossan; W. S. Marr, Uppermill; R. Salmond, Nether Balfour, Durris; R. Macdonald, factor, Cluny Castle; J. Gray, consulting engineer, Aberdeen; R. Copland, Mill of Ardlethen; and J. Cochrane, Little Haddo; and the following is their report:

Before stating their opinion on the various reaping-machines, the judges have to express their regret that the corn, and more particularly the state of the land on which the reapers were tried, were both very unsuitable for the fair trial of the machines. Much of the corn was laid and twisted, and the soil was, from the recent rains, too soft for the proper working of the machine. On account of the wet spring, the ground had not been rolled, and besides loose stones on the surface, there were many earth-fast boulders, which, unfortunately, led to the breakage of one of the machines towards the close of the day. The judges think it right to state that the breakage was not due to any defective construction, but to the fact of its having been brought "dead up" against an earth-fast stone. The judges have had very great difficulty in deciding between the various reapers which have been exhibited, and they may state generally that the whole of them performed satisfactory work, and that the purchaser of any one of the implements exhibited may be satisfied that he has got a reasonably good machine. The judges report with very lively satisfaction that, notwithstanding the state of the corn being as described, the self-delivering reapers perform better and more satisfactory work than those delivering the sheaves by hand. They have no hesitation in saying that the performance of the self-delivering machines on the corn, laid and twisted as it was, might be characterised as good fair work, and better than if executed with the scythe, which, considering the state of the corn and the land, the judges consider very high praise. One-Horse Manual Delivery Reapers: Six reapers were entered in competition, each cutting about $4\frac{1}{2}$ feet wide. The judges are not prepared to discriminate between the quality of the work performed by the several machines. Their mechanism varies in certain points, the relative advantages of which could only be determined by a protracted trial. The prices vary from £12 10s. to £20, and the judges award to the machine exhibited by Mr. Jas. Gregory, Westoe, South Shields, the silver medal, in respect of the cheapness of its cost, £12 10s. Two-horse Manual Delivery Machines: The prices of these machines vary from £21 to £25 10s., and they cut from $4\frac{1}{2}$ to 5 feet wide. The judges had very great difficulty in discriminating amongst the nine reapers exhibited in this class, and concluded to award the first prize to two machines manufactured by Messrs. Pickles, Sims, and Co., price £24 15s. The machine of these makers, exhibited by Messrs. B. Reid and Co., is 5 feet wide, and was considered to perform rather better work than the other, which was exhibited by Mr. James Purse, Mintlaw, due probably to a somewhat different arrangement of the forewheel. The second prize is awarded to the machine manufactured by Hornsby and Son, Grantham, exhibited by Messrs. Murray and Co., Banff. The judges were unable to decide between the machines exhibited by Brigham and Co., Berwick-on-Tweed, and Lillie and Elder, Berwick-on-Tweed, which they report equal. The price of each of these machines is £24 15s. Self-delivering Reapers: The judges have great pleasure in congratulating both the makers and farmers on the perfection attained in the manufacture and work of these machines. The work they performed to-day was decidedly superior to that done by the hand-delivery machines, whilst, in addition, the labour of one hand was saved. There is a further facility peculiar to the self-delivering machine, viz., that it discharges the sheaf well clear of the standing corn, so that the horses can make a second turn; indeed, cut down the whole field without the necessity of binding and stooking. The judges award the first prize to the Hornsby machine, exhibited by Messrs. Murray and Co., Banff, price £34 10s. The second prize is awarded

to a machine manufactured by Samuelson and Co., and exhibited by B. Reid and Co., price £31 10s., and the third prize to Pickley, Sims, and Co.'s machine, price £30. The work performed by the two machines was nearly equal, but, on the whole, the judges prefer the former.

After the conclusion of the competition of the reapers, the judges examined the working of a hand-threshing machine, manufactured by Messrs. Murray and Co., Banff, which was recommended for trial at the Society's Summer Show. The working of the machine was so satisfactory, and recommended itself as likely to be of large service on crofts and small farms, that the judges recommend it for the Society's medal.

(Signed)

J. W. BARCLAY,

Convener of the Judging Committee.

THE BAKEWELL CLUB SHOW.

The entries were more numerous than on any previous occasion, especially of hunters. In the cattle classes there were upwards of 90 entries, but owing to the prevalence of the foot-and-mouth disease in the district, some of the animals which had been entered did not appear. The heifers, stirks, and milking cows were of merit, especially the heifers, the whole of one class being very highly commended. G. Lomas, of Stodhart Farm, was the only exhibitor in the class of Shorthorn bulls, of two years old, and the first prize was awarded to him. Prizes for yearling bulls were taken by J. Gibbs, Ball Cross; C. E. Briggs, Hartington; and Messrs. Furness, of Birchill Farm. J. Kirkland, Stanedge Grange; G. Sampson, Friden Farm; and T. Wilton, of Heathcote, obtained prizes for the best in-calf Shorthorn cows, combining in the greatest degree milking and grazing qualities. For dairy cows a first and third prize were given to J. Kirkham, and the second to G. Lomas. The other successful competitors in the cattle classes were Messrs. L. and G. Furness, who gained five prizes; — Harrison, Chatsworth Hotel (4); J. Kirkham (4); G. Sampson; — Potter, Harthill Moor; I. Bagshaw, Green Cowden; F. Potter, Harthill Moor; J. Banks, Cotes Field; T. Walton, Heathcote; M. Clay, Bakewell; P. Furniss, jun., Ashford; G. Haddock, Bakewell; W. Hodkin, Bakewell; T. Noton, Bakewell; W. Noton, Bakewell; and J. Oliver, Ashford. There was a very numerous show of sheep, particularly of rams, and prizes were taken by J. Brown, of Shardlow; R. Gould, Pilsbury Grange; R. Johnson; R. Lee, Kniveton; B. Buxton, Aldwark; R. Johnson, Upperfield; W. Buxton, Bakewell; F. Robinson, Newton Grange; W. Greaves, Bakewell; and G. Wallwin, Ashford. The show of pigs was rather small. M. Walker, of Stockley Park, was a large exhibitor, and gained two first prizes, and one second. C. B. Speight gained several prizes, and the other successful exhibitors were R. Ingleby, of Baslow, and W. Noton, of Bakewell. There was a good entry of horses, the number exhibited being far in excess of former years, and most of them were in good condition. The cob classes were particularly worthy of mention. Mr. Gould took first, J. R. Cooper, of Newton Leys, second, and F. Potter third prize given by — Poll-Gell for draught mare and foal. In the two-year olds, W. Rogers, of Linecar House, was first, R. Furniss second, and B. Swaffield third. J. Cooper was also first, F. Potter second, and J. Evans third in the yearlings. In the brood mares for breeding hunters or hacks, for which the President also offered prizes, W. Greaves carried off first and second honours, whilst W. Rowland, of Middleton-by-Youlgreave, was third. T. W. Wager, of Glutton Grange, took first place for two-year nags, S.-Grindy second, and G. Smith, Burton Moor, third. In yearlings, W. Greaves was first and third, and W. Hodken, of Beoley, second. The pony class was very full, and the prizes were thus bestowed: R. Armstrong, Mansfield, first; J. Thornhill, Great Longstone, second; and G. Needwood, third. Miss McConnell was highly commended, and J. Archer and G. Taylor commended. The prizes for ponies not exceeding 13 hands high, were given to J. Cotes, The Rufford, first; C. Levett, Rowsley, second; — Greaves, third. J. Archer took first, J. Wallwin second, and G. Smith third prize for pairs of plough horses, the rest being commended. The hunters stood in the following order:

T. H. Smith, of Ashborne, first and third; T. W. Smith, The Edge, second. In the four-year-olds T. W. Wager was first and second. The cheese, butter, wool, and poultry were placed in the Town Hall. There was a capital show of cheese—in fact, the largest and best which has ever been witnessed at Bakewell. The quality was very even, and the judge had very great difficulty in awarding the prizes. In six of the contributions there was not the difference in quality of 1s. a cwt. Prizes were taken by C. E. Briggs, of Biggin, W. Greaves, of Bakewell, J. Hodgkinson, of Haddon Grove, and Messrs. Furniss, of Birchill; W. Potter and F. Potter, of Harthill Moor were highly commended. There was a good show of rich butter, the first prize for which was taken by J. Heathcote, of Carsington, and the second by Messrs. Furniss. There was a larger show of poultry than that of last year. There was a moderate show of wool, and prizes were awarded to Messrs. Furniss and W. Greaves. There was very little competition in roots.

JUDGES.—CATTLE AND SHEEP: T. Dickens, Mansfield; J. Faulkner, Brethby Park. HORSES: J. Glover, Newark; H. C. Johnson, Calow. POULTRY: T. P. Wood, Chesterfield. CHEESE: S. W. Cox, Derby. BUTTER: J. Kenyon, Grindleford Bridge. WOOL: J. H. Willey; W. Addy.

SMITHFIELD CLUB.

A Council Meeting was held on the 27th Sept., present: Lord Tredegar, president, in the chair; Mr. Duckham, Mr. Leeds, Mr. Farthing, Mr. Newton, Mr. Fookes, Mr. Sanday, Mr. Giblett, Mr. Senior, Mr. B. T. Gibbs, Mr. Horley, and Mr. Webb.

The Minutes of the last Council Meeting were read and confirmed.

The following special regulations in connection with the forthcoming Show were unanimously agreed to:

1st. That no animal (cattle, sheep, or pig) exhibited at any other Show within one month previous to the 6th December, 1872, be allowed to be exhibited at the Smithfield Club's Show this year.

2nd. That each exhibitor be required to certify that any animal to be sent by him for exhibition at the Smithfield Club's Show this year has not been and will not be shown at any other exhibition within one month previous to December 6th, 1872.

3rd. That all animals undergo a veterinary examination previous to being admitted at the doors of the Agricultural Hall, and that suitable covering be constructed over the outer yard to enable this to be properly carried out.

4th. That the exhibitor shall send with each animal a certificate that it has not been for 14 days' previous to its leaving home for the Smithfield Club's Show in contact with any animal suffering from contagious or infectious disease.

5th. That all animals (cattle, sheep, or pigs) coming by railway to the Smithfield Club's Show be sent in horse-boxes, or in private conveyances.

A communication from Professor Simonds was read, resigning the office of Veterinary Inspector to the Club, in consequence of his appointment as Principal of the Royal Veterinary College, and it was decided to fill up the office at the next Council Meeting in November.

The following gentlemen were elected members of the Club: Lord Walsingham, Merton Hall, Thetford; Dick Radclyffe, 129, High Holborn; George Street, Maulden, Amptill, Beds; Richard Badcock, Abingdon, Berks; E. de Mornay, Cold Harbour, Wallingford; Richard H. Harris Earahill, Forres, N.B.; T. Moir Clark, 56, Virginia-street, Aberdeen; Alfred de Mornay, Cold Harbour, Wallingford; Mr. Smith, jun., Hoopern, Exeter; and D. Green, East Donyland, Colchester.

The Council decided that the Implement Stewards at the forthcoming Show be requested to prevent the cutting of chaff, &c., in the exhibition, and that notice of the same be sent to each exhibitor.

A vote of thanks was given to the President for his conduct in the chair.

THE DUTCH AGRICULTURAL SOCIETY.

MEETING AT THE HAGUE.

Holland is not an agricultural country, yet there are few peoples who till the soil with greater industry, or, all things considered, who manage to get more from it. In 1847 the Dutch did what more exclusively agricultural people, and some who are much less so, have done—they established an Agricultural Society. Ten years ago this Society celebrated its fifteenth anniversary at the Hague, and since then it has visited all the more important towns in the northern and southern provinces, and this year comes back to the largest village in the world, to hold one of the largest shows it has yet had, as its twenty-fifth anniversary. Dutch agriculture is, we should say, a pursuit under difficulties. How land can be drained when the greater part of it is only a few feet above the level of the sea, is a mystery; but Dutchmen are proverbially patient, and so the traveller sees every available corner of the flat little kingdom under some kind of cultivation, and generally in a very high state of cultivation too, only the result is not what we in England should consider very successful agriculture.

The Dutch Society opened its twenty-fifth anniversary exhibition on Saturday week. The King of Holland was to have assisted at the celebration, but did not; and the gates were opened without ceremony of any kind, except the payment of the exiguous entrance fee. The place in which the show is held is a large square park or pasture of about twenty-five acres. It is bordered on one side by a fine double avenue which leads to the Palace, and on the others by belts of thriving young elms. The bottom is, like so much of Holland, only a few feet above the level of the water in the surrounding dikes—that is, when the weather is moderately dry. When it rains as it did late in the afternoon of Saturday week, and had done on the two previous days, it is scarcely correct to say that it is above the level of the water at all. The grass was of luxuriant growth, and those who did not wade about in the sabots which the natives wear ought to have been provided with water-boots or at least with india-rubber goloshes, or better than all with an iron constitution and an indifference to the discomfort of wading through long wet grass or standing in pools of water ankle-deep. In short, the English exhibitors and visitors declared that they had not had such an experience since the Royal Agricultural Society of England encamped somewhere in the Black Country. The natives did not seem to heed the discomforts or fear the dangers of the ground, and while the rain held off on Saturday, they streamed into the show-yard in fair numbers, though in no proportion to the large population of the place.

There are those who declare that our English agricultural societies pay too much attention to the breeding of stock, which is, they say, only a sort of attendant or hand-maid upon agriculture proper. Such critics should have visited this little Hague show, for few prizes were offered for stock and no stock was to be seen except at intervals. The premiums offered for the more agricultural portion of the show are for ploughs, for light or heavy land; for double-furrow ploughs, for Comstock's rotary plough, for harrows, for light and heavy land; and other kinds of cultivators, corn and seed drills, horse hoes, field rollers, reaping machines, mowing machines, haymakers, horse-rakes, steam engines, thrashing machines, horse-gears, winnowers, dressing and screening machines, grinding mills, chaff-cutters, root-

pulpers, oat mills, linseed-crushers, cake-breakers, churns and cheese machinery, cooking apparatus for cattle food, flax machinery, carts for liquid manure and weighing machines, both for grain and cattle. There are also prizes for diving apparatus, diving in so water-logged a country being possibly considered an agricultural operation. The people who complain of the share which agricultural implements begin to occupy at such shows as this, had better not go the Hague, for three sides of the large square enclosure in which the exhibition was held, were occupied by implements and machinery. Messrs. Peignat and Co., and Messrs. Landré and Glinderman, of Amsterdam, had each enormous collections from English makers; and other Dutch exhibitors' stocks were similarly made up. Besides these, a few English makers were present from the eastern counties, with collections of their own: notably Messrs. E. R. and F. Turner, and Messrs. Weetman, of Ipswich, and Messrs. Woods, Cocksedge, and Warner, of Stowmarket. These are the only English firms that were directly represented, but Messrs. Peignat's stock contained the double-furrow and others of Ransomes' ploughs, which have been entered for the trials. Mr. James Edward Ransome was present on Friday week at the attempt which was made at Loosduinen and at Coeq to try the ploughs and cultivators. Messrs. Hornsby's "Champion," as also their "Anglo-American"; Corbett's, of Shrewsbury, "Defiance"; and other English makers appeared in this competition. Corbett's "Champion Excelsior" was entered for the competition on light land. The competition in harrows was also divided into light and heavy land harrows. The chain-harrow prize was competed for by Messrs. Howard, both for single and double horse, and Mr. Hunt, of Leicester, and Mr. Corbett, of Shrewsbury, also entered for this competition. The light-land competition should have been held at Loosduinen, and that for the heavy land was arranged to take place at Coeq. Hither, therefore, tons of implements were transported on Thursday by canal boats, and the owners and agents attended to their no small inconvenience; but the trials had after all to be abandoned in consequence of the rain, and the ploughs and other implements returned to the field. The judges announced to the exhibitors their intention of awarding the prizes on the mechanical merits of the implements as they appeared on inspection in the show-yard. The prizes for the implements on the stands have fallen pretty equally amongst the English makers; indeed, there were only a comparatively few agricultural implements of native manufacture in the exhibition. On the fourth side of the square was a large covered space, in which was exhibited a miscellaneous collection of articles, some of which are not very closely connected with agriculture. There was in this place, however, a good collection of grain, some of which was of a superior character. Some horse beans were shown, of capital growth and in splendid condition, but the wheat was generally thin and in poor condition. A few samples of bright, handsome barley, a large number of oats, and many samples of rye made up a display of grain which must have tempted many an English farmer to stop and compare notes with that which he had left at home. In this department was a show of roots. The mangolds were large, but dreadfully coarse.

They were shown without the tops, and a good thing too, to judge from the look of the stumps from which they had been removed. The field would hardly have been large enough to have held the roots with the tops, if we may judge by after appearances. The root ends of the mangolds were fangy and ugly in nearly every case, and the long description was almost invariably bent, as if the root had run down to a soil which it found to be unsuitable and had turned to avoid it. The horticultural schemes and contrivances shown in this department were very interesting, especially the specimens of grafts exhibited in various stages of growth. Garden furniture was very abundant, and as Holland is a country abounding with ozers, wicker-work was naturally very prominent, and some of it very ingenious. Amongst the fancy articles were garden chairs, tables, and seats of all kinds in bamboo work. The artist had even constructed a sideboard in bamboo, which had a very pretty appearance.

The Hague has been full of visitors of every kind and degree, but the peasantry have been decidedly predominant during the past week. Farmers and their wives have filled the streets, the avenues of the show-ground, and the seats at the various tables d'hôte in the town. The comical-looking metal head gear, affected so largely by the peasant women of the country districts of Holland, have been as common to the eye as the paving-stones in the streets. The weather has been very trying to all concerned, and the show-ground has not improved under the copious rains and heavy traffic of the past week. The English implement makers have been very successful, and no wonder, seeing that their goods were nearly exclusively shown even by the Dutch exhibitors. Messrs. Marshall and Sons, of Gainsborough—exhibiting through Messrs. Landré and Glindeerman, of Amsterdam—took the first prize for an eight-horse power portable steam-engine; first also for a three-horse; first for a steam thrashing machine; besides one or two other prizes. Messrs. Howard, Bedford—exhibiting through Messrs. Boeke and Huidekoper, of Groningen—took the first prize for a heavy land plough, and first also for an "H. H." hay-maker. Messrs. Garrett, also through Messrs. Boeke and Huidekoper, took the first horse-hoe prize. Messrs. Ransomes took a long list of prizes, chiefly through M. Peignat and Co.; amongst which were the first prize for a light-land plough and an extra medal for the same implement; first for their double-furrow plough, and first for their "Royal Prize" horse-rake. The Widow Massee and Zoon, of Goes, had a large number of Smyth's drills, and one of them, fitted with Cambridge's box, took the prize as the best drill for linseed. Messrs. Hunt and Pickering took a prize for their chain harrows, exhibited by Messrs. Landré and Glindeerman. Messrs. Coleman, Morton, and Co.'s liquid manure cart, through the same firm, also got the first prize. The cleanest sweep of prizes by an English maker was, however, made by Mr. Corbett, of Shrewsbury, whose implements were the leading feature of Landré and Glindeerman's large collection. Amongst the prizes were a second for the "Defiance" double-furrow plough, and an extra prize for the reaper-knife holder, an implement which evidently puzzled the Dutch visitors very much. Some of them might be seen, "spectacles on nose," peering at it from all points, as if they would gladly have looked through the very metal of which it was composed. The "Eclipse" winnower not only took the first prize, but was honoured by a special examination by the King of the Netherlands, when his Majesty visited the show on Monday. The elevator and weighing machine, by which this winnower and dressing machine is supplemented, especially attracted his Majesty's attention. The elevator picks up the corn from the tail of the machine, and delivers it into the sack which is spread

open upon the weighing machine. As soon as the proper weight for four bushels, or any other measurement of wheat, has fallen into the sack, the turn of the scale closes the hopper, and there is the sack of corn ready for market. The scheme may not be equal in merit, as an adaptation of means to ends, with the application of steam to the propulsion of vessels upon the sea or cars and ploughs upon land, but it is a very useful contrivance nevertheless, and so said his Majesty William III. of the Netherlands, who spent some time in examining it. A portable grinding mill for horse-power, a land roller and horse hoe, were also amongst the articles of Mr. Corbett's manufacture, to which the judges awarded prizes. Messrs. Hornsby's reaping machine; Samuelson's self-raker; and the American machine "Buckeye" carried off the prizes for reapers. The latter implement was also successful as a one-horse mowing machine, notwithstanding the Yankee horror of a one-horse affair. Messrs. Burgess and Key's two-horse mower, exhibited by Messrs. Boeke and Huidekoper, of Groningen; Brigham's two-horse mower, exhibited by Vorbeijtel and Co., of Bergem-op-Zoom, were the winners of the 2-horse mower prizes. Chaff-cutters were exhibited in all their bewildering variety; and, as if to make another distinction where there was difference enough already, the committee had also offered prizes for what they chose to call a "hay-cutter." Richmond and Chandler (No. 64) took the first prize for chaff-cutters for power, being followed, in the second and third place by Messrs. Ashby, Jeffery, and Luke, of Stamford, and Bentall, of Heybridge. A machine by the latter firm also took the first prize with a C. D. C. cutter. Mellard's turnip-cutter took the first prize. This machine has a triple action, and the judges preferred it to the double-action machines of other makers who were in the competition. Prizes were offered for dairy machines and implements, and most of those shown were of Dutch design and construction, and looked as if they were inventions not more recent in date than the time of William the Silent. From the appearance of the show ground we rather suspect that the Dutchman objects to new inventions, simply on the ground that he has not heard of them before, and he likes such implements as his grandfather used. There were specimens of Eastwood's churn on Landré and Glindeerman's stand, and some of the atmospheric churns were shown by Boeke and Huidekoper. Some of the Dutch churns were suited to large dairies, and if "all's well that ends well" they are above criticism, for the Dutch butter, as met with in Holland, is simply perfect, and is always exactly alike. They were, however, very awkwardly constructed, and exhibited in their working parts all a Dutchman's characteristic disregard of friction. One large churn was constructed to work with a lever communicating with a crank and also a treadle, when a simple hand crank would have done equally as well. This was a large affair, equal to the working of ten or a dozen gallons of cream, and there was a rather formidable-looking arrangement in the place of a fly-wheel to supplement the reciprocating motions by which the machine was worked. This was an iron arm, about four feet in length, finishing at each end with a heavy knob, an axis at the centre communicated with the cranks of the hand lever and treadle, and of course no one has any business to put his or her head in the way of the knobs, when they are swinging rapidly round in the dairy. It is possible that this arrangement is cheaper than the more elegant and safe fly-wheel, and certainly it is Dutch. The judges gave it a prize, and it is said that the churn itself is a very good one. It works with two plungers in two separate barrels in tubs, and one of them may be cleared while the other is at work, or only one may be worked. Two English cheese-presses of Southwell's, one

for a single and one for two cheeses, were in the prize list; and the same firm got a prize offered for the best cheese-making apparatus. Thermometers were entered with the agricultural implements—and why should they not, when farming depends so much upon the weather?—and there were a few very useful instruments exhibited. For the prizes for haymaking, or drying apparatus for use in wet weather, the entries did not fill, and in a pastoral country like Holland and one of the wettest of European climates, no one has apparently thought it worth his while to attempt to dry hay by artificial means! There were only three exhibitors, directly exhibiting their own goods, from England, and these were Messrs. Woods, Cocksedge, and Warner, of Stowmarket; E. R. and F. Turner, and John Weetman, of Ipswich. All of these were successful, and the Committee of the Society appeared to be highly gratified to find that their show could attract people from other countries. Messrs. Turners obtained prizes for oilcake breakers, linseed crushers, and a threshing machine. A portable engine on their stand was disqualified for competition, because it had not, in compliance with the Dutch law and the rules of the Dutch Agricultural Society, a cock between the pump and the boiler. Messrs. Woods, Cocksedge, and Co. got prizes for horse-gears, for turnip cutters, for linseed crushers, cake breakers, and for a root pulper. Mr. Weetman exhibited a vertical steam-engine, which obtained a prize; and also a horse-rake and weed extirpator combined, with a contrivance added for putting on a seed-box. A sheep rack was on this exhibitor's stand, of simple make, and also obtained a prize. This and the horse-rake were bought by the Society for the lottery, with which the whole affair ended. Speaking in general terms, the show, as far as agricultural implements went, might as well have been held in England. The Dutchman is slow to move, and does not go upon modern principles when he does act. The few machines of Dutch make exhibited an utter disregard of the fact that friction means loss of power. Probably the Dutchmen think that friction is inevitable, and that as their fathers before them had to overcome it they have no right to evade the burden. In one case the judges gave a prize to the old peg-drum thrashing machine—the specimen was of Dutch make—which is about as wasteful of power as anything could be well made. In another case we came upon a copy of an English grinding mill with a wheel added to reduce the motion. The reduction was only equal to a few teeth in each revolution, and must have been far more than compensated by the increased friction of the extra wheel. Another characteristic of the few implements which were of Dutch make was that useless strength which is apt to degenerate into clumsiness. If iron maintains its present high price, the Dutch will have to obtain strength with less metal than some of their implements exhibited at this show. Wherever strength is needed, there they obtain it by sheer weight of metal, and strengthening ribs, as flanges appear not to have suggested themselves to the Dutch inventor's minds. The prizes offered by the Society were only small, and that we suspect is one reason why there were not more goods of native make and invention in the show. The Dutch are thrifty to a fault, and won't go far out of their way without a chance of being directly paid.

On Monday there was a show of about 150 horses, for a few hours only. They were tethered in two lines in the centre of the ground, and all the arrangements were of the most simple—not to say primitive—character. A few stakes driven into the soft puggy earth, and a cord run from one to the other, with a light rail over head for the number and the prize card, was all that was done. The ground round about was slightly hollow in places, and water stood in the low parts to the depth of two or three

inches. Some of the peasants who came to see the horses wore wooden shoes, and had decidedly the best of it, too. The horses were a rough-looking lot, and certainly could not be accused of having been got up for show. They might have been taken from the plough or cart only a few minutes before appearing in the show-field. There was scarcely a stallion amongst the heavy-draught horses that would have stood a chance in an English show-yard. They were most of them leggy and coarse-looking, with a strong infusion of the Friesland blood. The country is not favourable to the development of the powers of draught animals, as the land is light, hills are unknown, and the roads are paved, till everything runs upon them as upon a tramway. The winner of the four-year-old prize was a nice-looking dark chesnut, the property of M. J. Dingemans, of Gorinchem, and the secretary of a Society for the improvement of horses. He was the best horse in the show-yard, and it is to be hoped therefore that the Society of which Mr. Dingemans is the secretary is doing something towards improving the breed. After the stallions there was little worthy of notice. The light horses were yet more leggy than those intended for heavy work. Some nice-looking chesnuts were shown in pairs, matched with all a Dutchman's love for accuracy; but they were not presented in what we should consider show order, and their shaggy legs and unkempt manes were hardly creditable to everyday grooming. Those shown in harness were got up in some cases with a grand display of coloured harness; but they were for the most part awkwardly driven. Dutch drivers are fairly skilful; but they make no attempt at style, and lounge and loll upon the box, and snap their whips, and flourish theatrically about in anything but what we in England should call a business-like style. Their horses are badly under control, and there was scarcely a case in which a start was effected without a man to lead off, and even then the man had generally as much as he could do. The riding of the Dutch grooms, and even of some of the owners, is even worse than the driving. Their seat is loose and uneasy, their arms are flying about, and their trousers generally are knee high. Many of the horses were for sale, and the highest price marked in the catalogue was 2,000 guilders, or about £166 sterling. This was for an East Prussian horse exhibited by M. J. N. Blauw, of the Hague. The King of the Netherlands visited the show ground on Monday and inspected the horses. His Majesty's carriage was drawn by four fine bays, which were better in every way than anything in the field.

On Wednesday there was a show of neat stock, arranged in a manner very similar to the horses, not even excepting the pools of waters. Rain had fallen more of less—generally more—every day and night since the show opened, and the consequence was that the neighbourhood of the stock was more sloppy than it had been while the horses stood on the same spot. The bulk of the neat stock came from North Holland, and were the large framed and somewhat loosely made Dutch cattle with which our markets for foreign cattle have made us all familiar. Some of the bulls were of great size. The fatal "te koop," for sale, and the figures appended showed pretty nearly the destination of even the best of these animals. There were one or two specimens of English Shorthorns, or crosses of the same breed, in the show, and M. A. H. Van Wickevoort Crommelin, of Berkenrode, exhibited some fair animals. Most of the breeding stock was in very poor condition, and even the largest and best were mean in the hind quarters and flat sided; but some of the fat stock had a very respectable amount of meat on them. A large black bull exhibited by Mr. P. Vromestijn, of Leyderdorf, got the first prize as a three-year-old. He was an animal of great depth on the shoulders, and, on the whole, a nice, level beast. Here and there in the

show was a huge-framed, ugly-looking Friesland beast, in wretched condition; but the Dutch pastures will, in some cases, put such animals in good condition very quickly, and they are large enough to lay on any amount of meat. The fat oxen were the best part of the show, and some of them would, we have no doubt, cut into the excellent beef one meets with in all parts of Holland. One of the prize animals was bought for £52 for the lottery, with which the show is to end, and another was marked up at about £80 for sale. They were animals of enormous depth and girth, and the eighty-pounder was the "biggest thing out," as the Yankees would say. It was a game of the playful Dutchmen to get one on each side of this monster, and endeavour to catch each other's eye across his back. Only moderately tall men could succeed in this. The cows of this North Holland breed are said to be splendid milkers, and there was a nice show of them. They are narrow on the loins, and flat in the ribs; but are a useful kind of animal, and the fine butter they make everywhere in Holland ought to be allowed to cloak a number of sins against good form. There were 126 entries of cattle, and they remained till about four o'clock in the afternoon, when the exhibition yard was

closed for the day. The Queen of the Netherlands drove up and down the lines of the cattle on her visit to the ground on Wednesday, and one or two of the prize animals were led out for her Majesty's examination, the carriage being thrown open in order to give a better chance of seeing them.

On Friday there was a show of sheep and pigs, which was managed in much the same manner. The Dutch tables d'hôte are at half-past four o'clock, and great must be the attraction to keep the Hollanders away from the table. The show-ground has emptied each day almost at once at four o'clock, only a few unfortunates, who it is to be presumed had no table d'hôte to attract them, lingering on the ground after that hour. The show has been managed by a committee, and English visitors and exhibitors are warm in their praises of those gentlemen. The secretary was M. P. F. L. Waldeft, of Loosduinen, near the Hague; and the president, Mr. Van der Boon Mesch, of Leiden. Mr. Crommelin, a member of the committee, has also been in constant attendance, and no want of an English exhibitor has been left unsupplied, and no reasonable request of an English visitor unattended to by the authorities.

IX WORTH FARMERS' CLUB.

SHEEP AGAINST BULLOCKS.

At the last meeting, Mr. E. Greene, M.P., the President of the Club, in the chair,

Mr. FISON read the following paper: I wish to inculcate by practice my views respecting the subject to be brought before our meetings. Short papers are calculated, as a rule, to be the most useful, as they leave more time for discussion. I will, therefore, briefly continue the subject of my former paper. Good farming is not so dependent on grazing bullocks as is supposed. Sheep may be successfully substituted on lands thought to be unsuitable to them. For proof I refer you to my results, and to the following quotation from the *Field* of April 6th: "We are satisfied if the grass on strong lands were properly cared for, ewes might be wintered successfully. It might not be prudent to keep them over the year. We have tried ewes on very poor clay, and had very good luck. A cross of Cheviot and Leicester put to a Shropshire tup have produced a double crop of lambs, *i.e.*, two to each ewe, and it is possible to get all off fat by August. The ewes live on grass land and get a small quantity of pulp, chaff, and a little artificial food. We are satisfied that much might be done in this direction, and that the present state of grass lands on clays, undrained, unfed, and over-run with weeds is a disgrace to the intelligent farmer. If it were fairly dry, treated with artificial manure, good grasses would take the place of rushes, and stock soon show the improvement of the pasture." It is unnecessary for me to detain you by describing how I maintain 20 score of half-bred Leicester ewes on under 300 acres of land which requires draining. Surely with the present deficiency of sheep, if my practices will bear comparison with your ledgers, my results must be of some importance to my neighbours, and the public generally. I therefore place before you the past two years' sales, from October 11th, 1870, to September 18th, 1871. My

	£	s.	d.
Live stock, including 527 lambs, realised	1,314	17	0
Wool	104	0	0
Wheat, 60 acres.....	789	0	0
Barley, 85 acres.....	801	19	0
Oats after tares fed off	24	10	0
Seeds	115	16	0
Peas, 16 acres, consumed 102 coombs	102	0	0

£3,252 2 0

Contrary to general opinion early dun peas are with me a

reliable and favourite crop. I get them off, and generally get a very useful crop of turnips or mustard, manuring liberally and sowing early, wheat following. Excepting those thrashed in 1870 they have fully averaged ten coombs per acre. Here let me have a rap at the abominable Game-laws. We farmers say—I suppose from a wish to propitiate our landlords—that winged game do no harm. Of 16 acres, eight were so much injured by partridges and pigeons that the result was considered to be not more than three to four coombs, but the other eight acres uninjured by birds brought up the average to about seven coombs. Both plots were on favourable land, and remarkably good plants. This, I remember, on a farm not belonging to a game landlord. I say nothing—you all know about our losses by rats, sparrows, which have free run in consequence of the destruction of predatory birds, and the weasel tribe by gamekeepers. My receipts from September 18th, 1871, to present date are:

	£	s.	d.
Live stock, including 580 lambs, all cleared off by 6th of June	1,153	10	0
Wool	174	17	0
70 acres of wheat	894	3	0
70 " barley	721	17	0
5 " mazagan beans, 77 coombs at 17s. (consumed)	65	9	0
6 " sainfoin.....	38	16	0
10 " peas, 130 coombs (consumed)	130	0	0
	£3,178	12	0

This season my stock, in addition to the ordinary feed on the farm, and about ten weeks' keep at 4s. 6d. per score, have consumed 8½ tons of American cake and 80 coombs of peas. My annual outlay for artificial manures is about three tons of guano and 1½ tons nitrate. I conclude, expressing my best hopes for the progress and practical working of our Club to you each, quoting from a song in the *Tempest*:

Earth's increase and foison plenty;
Barns and garners never empty;
Vines with clustering bunches growing;
Plants with goodly burden bowing.
Spring come to you, at the farthest,
In the very end of harvest;
Scarcity and want shall shun you—
Ceres' blessing so is on you.

The PRESIDENT said that it seemed, from the

figures which had been given, that there were 580 lambs, which might be put down at £1,044, and Mr. Fison had laid out over and above what the farm produced—£180, and that left a balance of £864. Therefore, in the gross there was £860 to the credit of the farm of 280 acres. Now the point to be considered was, what would be the result if the land was farmed upon any other principle? It should be remembered that Mr. Fison could farm his land just as he pleased, and that the same quantity of corn could be produced by manuring the land with manure made by other animals. The real point for consideration was this—Was the system which Mr. Fison followed, of keeping sheep instead of other animals to convert straw into manure, more profitable than keeping bullocks? Could the sum of £864 be made on a farm like Mr. Fison's in some other way?

Mr. MANFIELD said Mr. Fison had given a large gross return for 280 acres of land, but there was one important point he had omitted, viz., how much he expended in order to get the return, for a gross return might be a satisfactory one or an unsatisfactory one, and if the £3,200 Mr. Fison had given cost him £3,300 to produce it, it would not be considered satisfactory; and, therefore, before the gentlemen present were able to judge whether Mr. Fison's return was a good or a bad one, it would be necessary to know what the cost of producing it was. The question was, what profit was left? As to the question of sheep versus bullocks, which was the one for discussion, some would recommend sheep because those animals were now fetching an unprecedentedly high price; but if the question had been asked two or three years ago, he doubted whether the answer would have been the same. Though sheep were now for a time very high, he thought they, as farmers, would not do quite right always to adopt the same plan, because the losses were at times quite in proportion to the present profits. He thought they ought to keep both sheep and bullocks, and not throw the latter over altogether for the sake of the former. He thought that their best plan was to rear their own stock and keep it throughout until it was fit to leave the premises, and also to buy young animals, and eventually fatten them and sell them at as good a price as possible. The production of meat just at the present juncture was a matter of considerable importance. Meat was constantly becoming dearer, and he was quite of opinion that it must remain dear, considering the deficiency there was in the number of animals. One generation of sheep had, so to speak, entirely passed away. For his own part, he should not know where to find a good lot of sheep at two years old. Mutton was now killed so young, and the supply was, in consequence, very short. In considering this question, the disease from which stock suffered was a matter that ought not to be lost sight of. If anything could be done to get rid of the foot-and-mouth and other diseases, he, for one, should be very thankful. In Huntingdon the market had been stopped in consequence of the prevalence of the cattle disease, and at Peterborough also. Mr. Manfield said he should like the opinion of some gentlemen present as to the best breeds to keep, both of cattle and sheep. With reference to the question of game, he was quite of opinion that a good deal of the mischief complained of was done by pigeons.

Mr. HARRISON: The pigeons will have to share it with the partridges.

Mr. MANFIELD: They may share it, but the pigeons will have to take the large share.

The PRESIDENT: What number of partridges on a farm would be considered large? Would one partridge an acre? I never shot it yet.

Mr. HARRISON: You are rather a bad shot I have heard, sir.

The PRESIDENT: When I have been out with my friends we have never shot more than one partridge an acre, and I do not see that one partridge can do much harm on an acre of land. No doubt pigeons are very destructive, for they will come down in a flock and do a good deal of injury in a short time.

Mr. FISON said it was part and parcel of the same question, for gamekeepers would not allow people to go after the pigeons. That was not, however, the question more immediately under consideration. Mr. Fison then went on to express his opinion that the stoppage of markets would be a great boon to farmers; or if there were rigid orders from the Board above that the market-places should be regularly disinfected it would have a most wholesome effect in decreasing the diseases.

Mr. GAYFORD said, as he was not intimately acquainted

with the management of stock on heavy land, he could not dispute the figures which had been given, or offer any decided opinion on the subject under consideration. He, however, quite concurred in Mr. Manfield's observation, that it was not wise to entirely discard one system of farming because another happened, from a combination of circumstances, to pay particularly well, because farmers were subject to a variety of contingencies, and they often found that what paid remarkably well one year did not pay the next. One farmer also might do remarkably well with sheep and another with bullocks, and there were so many ways by which the business might be affected, in buying and selling out and in other ways, that farmers ought certainly to have two strings to their bow. On light lands, where there was an opportunity of doing it, they ought to make their farms self-supporting in all respects—by that he meant they should rear and bring up their stock so that they have not any great outlay at any one time. With regard to keeping bullocks, at one period of his experience, during the cattle-plague, he might have said they lost him much more than they gained. But he learned the lesson not to buy in big bullocks. He began to buy and breed calves, and he thought he might say the bullocks had paid well, because they had grown into money at comparatively little expense. He could not understand how straw was to be effectually made into manure by sheep. This was a very important consideration, because it cost no more to cart out and spread good manure than it did ordinary. If Mr. Fison could make such a return as he had stated with sheep, and make good manure, he was fortunate, and his course of procedure was one that ought to be well considered. Mr. Fison, in his paper, had touched upon the Game-laws, and he thought that gentleman had not exercised his usual discernment in comparing pigeons with game. Mr. Fison was not in a game country, but he was in a wood country, and must feel the effects of pigeons more than of game. He (Mr. Gayford) was not there for the purpose of arguing the question, or of trying to please his landlord, but he must say he was rather surprised that his friend Mr. Fison should have laid himself so open to criticism. Nor did he (Mr. Gayford) wish to stand up in defence of the Game-laws, though he should be sorry to see them done away. Referring again to the subject under consideration, Mr. Gayford said he thought they should know more about the expenses of Mr. Fison's sheep at the outset. He feared that the providing for and attending to these sheep involved a vast amount of labour, much more so than a farm stocked with bullocks.

Mr. FISON said he questioned whether continually pulping for bullocks did not take as much time as doing it for sheep. He pulped continuously with horse-power, excepting when the steamer was at work, and that of course was used. In answer to questions, Mr. Fison added that his system entailed extra labour in the lambing season. He said also that his sheep as a rule consumed the whole of his barley-straw.

Mr. GAYFORD: The bullocks would consume a great part of that without its being cut at all.

Mr. HARRISON said he should not advocate over-stocking a farm either with beasts or sheep, but he should be inclined to have a fair proportion of each, rather than to separate them, and only keep either sheep or bullocks. He had some conversation on the subject at Botesdale the other day with his friend Mr. Henry Wells, auctioneer, than whom there was not a more respectable or thoroughly practical man in the country, and it was well known that gentleman had carried off several prizes for superior farming. He (Mr. Harrison) inquired of him how his sheep had done this year. Mr. Wells replied that he had had no losses this year, because he had not kept any sheep. Mr. Wells had, singularly enough, given up keeping sheep this year, confining his attention to bullocks.

Mr. FISON thought Mr. Wells was to blame for so doing.

Mr. HARRISON said Mr. Wells's land was much stronger than Mr. Fison's, and Mr. Wells had expressed his opinion that he could grow more without sheep (having bullocks) than he could with them. There was no doubt but that that gentleman was making a large return with beasts, and was getting a good lot of manure. Twenty score sheep would amount to about £1,300 or £1,400, but he (Mr. Harrison) was of opinion that a number of bullocks worth the amount would make more and better manure than the sheep. In the course of further remarks, Mr. Harrison said his gross returns were far in excess of Mr. Fison's, but he doubted, however, whether he got so much profit.

Mr. FISON : Then you must be a very bad manager.

Mr. HARRISON : A very bad manager, I am quite ready to admit.

Mr. FISON said that many of his agricultural friends had a most extraordinary way of keeping their accounts. In looking over the accounts of a friend of his, he actually saw a charge made for a set of drawing-room chairs. Items of this kind ought not, of course, to appear in these accounts. Many of his friends he knew put down their housekeeping expenses before they declared what the farm profits were. They ought to put down only the expenses of the farm, market expenses, what was paid for corn, stock, &c. ; and also the money they took, and when 4 per cent. had been charged for the capital, then the residue was the profit. Hang all about drawing-room chairs. He supposed that if a £50 piano was purchased for their daughters, that would also go down.

The PRESIDENT said the paper which had been read introduced to their notice a heavy-land farm of a certain size, and the question raised was, was it more profitable to yard a certain number of sheep treading the straw down into manure during the winter, or whether it would be more profitable to keep bullocks. Let them consider the different items connected with these sheep. From what he had been able to gather, the wool from the sheep fetched £1,044, and from this was to be deducted the cost of the cake £100, peas £80, £85 for loss of ewes to make up the flock.

Mr. FISON : That is not enough.

The PRESIDENT : You lost I believe about one to the score. How many sheep do you draft as crones ?

Mr. FISON : That is uncertain. This year we drafted about forty.

The PRESIDENT : It would cost about £65 to replace the flock. These figures made about £320, which deducted from the £1,044 left £724. Then there was the difference of labour upon these sheep as compared with bullocks.

Mr. FISON : The difference is very little.

The PRESIDENT : £724 was the net these sheep realised, and, of course bar the artificial food, they had been supported from the farm. There was, however, another point to consider, and that was the cost of the sheep when off the farm during the summer months.

Mr. FISON : They cost me about £60 a-year.

The PRESIDENT said that left £664 to deal with, and he asked Mr. Fison how many acres of pasture he had on his 280 acre farm.

Mr. FISON : From 20 to 25 acres.

The CHAIRMAN said he believed farmers in grazing a bullock were generally satisfied if the animal left his manure profit. That being so, there was no money in a direct form left to put into the bank. Then there were the 25 acres of pasture—what would be the most profitable to do with that ? Would they grow hay or graze their bullock, or what would be done with it ? There was the balance of £664 to go against what the pastures and layers would produce, and it would also be necessary to consider whether if bullocks were bought in the corn crop would be proportionately better. Coming next to the foot-and-mouth disease, the President expressed his opinion that if the markets were to be shut up now they must be shut up *sine die*, and he much feared that the evil would be greater than the benefit. The farmers would then be placed entirely in the hands of dealers. During the cattle plague the dealers made large fortunes out of the farmers, for they brought

beasts over, and the farmers had to take them at almost any price the dealers choose to offer them at. He contended that the foot-and-mouth disease was so hurtful to farmers because the animals were much neglected. It was an epidemic, and would soon pass away, and if the markets were closed the remedy would, as he said, be worse than the disease. Alluding to the question of breed, he said we had got such a breed of sheep as he never before saw. When he rode about the country it annoyed him to see them. He passed a lot the other day on the way to Bury market, and he asked himself the question, "Who on earth could have gone to the trouble to have bred such wretches as these, which would eat as much as the well-bred ones ?" The majority of the sheep of the present day were not half-breds—there was hardly a man who had got a half-bred bred as it should be. The right foundation for half-bred ewes was a Down ewe from a Hampshire Down ; but farmers now bred them out of the black-faced Norfolk, and the ewe thus produced was crossed with a half-bred tup. That might perhaps do the first time, but from that they went on crossing, and then what breed did they get ? In his opinion a man who had a half-bred flock, with the difficulty there was in getting half-bred ewes, should keep a certain number of Hampshire Down ewes, and take the ewe lambs from them to make up his flock. But in breeding there might be a great deal done with the wretches that were now to be seen by the proper selection of the tup. He had as many as four different kinds of ewes in his flock, and he bred his lambs all right. He selected his ewes, and put his tups in accordingly. If he had a light-faced ewe, he secured the greyest-faced half-bred tup he could find, but he found that the Oxford Down sheep had got him a better-faced lamb out of a half-bred ewe than any tup he ever got. If they persisted in breeding sheep as they now did, the animals might sell as lambs, but he pitied the man who had got to graze them. With reference to cattle, many farmers kept cows, which they called Suffolks, but which were very little bigger than a good sized rabbit ; instead of keeping a good Shorthorn, or of crossing the Suffolks with the Shorthorn. He did not believe a Shorthorn cow was a greater consumer than the Suffolk, but with a calf from a Shorthorn there was something to graze, and something to sell, but the wretched animals to be seen about were a disgrace to the county and the people who kept them.

Mr. FISON said he and others bred animals to sell, and they found that the lambs they bred sold the best, and were said by the dealers and others to be just the kind they required.

Mr. GAYFORD expressed himself in favour of good Suffolk cows, and stated as his opinion that the Suffolks altogether paid better than the Shorthorns.

Mr. MANFIELD said it must not be understood that £664 was the net profit of sheep of 280 acres of land. There were deductions to be made. First, the lambs were now much above the average price ; and, secondly, a great deal more money had to be spent for manual and horse labour.

The PRESIDENT said the sum he had named was not of course the net profit, for from this had to be taken extra expenses which farming in that particular way cost. At a later stage of the proceedings Mr. Greene said he did not wish to say anything against good Suffolk cows, which were valuable animals, but he intended his remarks to apply to the necessity of attending to the proper breed of the animals.

Votes of thanks to Mr. Fison and to the President brought the meeting to a close.

CHESHIRE AGRICULTURAL SOCIETY.

MEETING AT CHESTER.

The exhibition was held on the Roodee. The entries were not much short of 600, and the prizes competed for amounted to £660, this being inclusive of the sum of £268 offered by the local committee. As was the case last year, when the show was held at Northwich, the success of the exhibition was limited by the prevalence of foot-and-mouth disease, from which Chester cannot, unfortunately, claim exemption. Mr. John Barker, Rushton, who was a close competitor with the prize winner in aged bulls last year, was now the bearer of first

honours in this class. The silver cup offered for the best bull in the yard, irrespective of age or breed, was awarded to the second in the class for aged bulls, Hudibras, owned by Mr. E. Richardson, Alfrham Hall. James Gooldeen, Hale, Altrincham, was the first prize winner in yearling bulls, Mr. S. Davies, Eardswick Hall, being second ; and in bull calves, William Brown, Handley, Chester, was a prize-taker without competition. The dairy cows were not a good collection, and the entries were small. Mr. R. Nicholson, jun., Blacon Point,

Chester, was first in pairs for dairy cows; Mr. O. P. Forrest, Little Leigh, in dairy cows in milk; Mr. W. Sheffield, Tattenhall, in pairs of heifers; Mr. James Gooden, Hale, in pairs of stirks and pairs of heifer calves; and Mr. George Moulton, Clotton Hoofield, in labourers' stirks. In the competition for prizes offered by the local committee, Mrs. Elizabeth Beecroft, Upton, had the best lot of dairy cows. Mr. John Roberts had the best lot of two-year-old heifers and of yearling heifers, and the best pair of fat cows. Mr. R. Nicholson, jun., took first prizes for fat bullocks, and an Alderney and Guernsey cow. Mr. T. Wheelhouse, Guilden, Sutton Hall, showed the best yearling bull. The show excelled in horses, especially those for agricultural work. Mr. R. Nicholson, jun., had the best pair of horses for agricultural purposes, and the Stonetrough Colliery Company the best mare. Mr. Thomas Parton, Chorlton, was second in the first-mentioned of these classes, and Mr. T. Lowe, Handley, in the latter. Mr. T. Littler, who was first in stallions last year, was eclipsed by Mr. W. Whitlow, Preston Brook, with Lord Lorne, and his stallion True Briton followed as second on the prize list. Mr. T. Parker, Aldford, Chester, and Mr. Richard Hughes, Bunbury, were respectively first and second in thoroughbred stallions. Mr. John Smith, Abbotts Heys, Chester, was first, and Mr. H. Hewitt, Chester, second, in roadster mares or geldings. Mr. John Roberts, Well House, Saltney, and the Stonetrough Colliery Co., were winners with brood mares for agricultural purposes, with foals; and in two-year-old geldings or fillies for agricultural purposes, Mr. J. Hornby, Minshull Vernon, and Mr. T. Balmer, Chester, were successful. In yearlings, Mr. James Maddock, Chester, took the two first prizes. There was a fine competition in brood mares for hunters, and three-year-old hunting colts, for premiums offered by the Marquis of Westminster. These were won respectively by Mr. Joel Dean, Bebington, and Mr. Ambrose Dixon, Chester. The Marquis of Westminster was the successful competitor in hunters, and the first prize-taker in leapers; the second in this latter class being Mr. Nathaniel Cooke, Birkenhead. Mr. T. F. Maddock was first and the Marquis of Westminster second in cobs.

In the competition for the local committee's prizes, the first prizes were taken as follow: Three-year-old gelding, Mr. J. T. Jackson, Chester; dray horse, Marquis of Westminster; gelding in harness, Col. Baker, Chester; pony in harness, E. Evans, Chester; two-year-old filly, suitable for hunting, Mr. G. Bratherton. Sandbach; yearling gelding, Robert Salmon, Waverton. The most successful exhibitor in long-wooled sheep was Mr. T. Richardson, Sandbach; and in short wools, Mr. T. Johnson, Frodsham. There was a good though small show of pigs, the first prize-takers being Mr. T. F. Jackson, Tattenhall, Mr. J. Eardley, Malpas, and Mr. A. C. Lockwood in the large breed; and Mr. Joel Dean, Bebington, in the small breed. There was, as usual in Chester, a good competition in cheese. A silver cup, value £5, was given to Mr. T. Balmer, Chester, for the best dairy of cheese in the yard, irrespective of size and colour. The same exhibitor obtained the first prize for a dairy of cheese weighing 50lbs. each. Mr. Geo. Prescott, Minshull Vernon, won the second prize, and for a dairy of new cheeses, between 20 and 50lbs. weight each, Mr. T. Booth, Tarporley, took the first, and Mr. W. Moreton, Acton, the second prize. The Marquis of Cholmondeley and Mr. J. Tollemache each gave a prize for cheese "not made on the Sabbath day," and these premiums were awarded to Mr. Hugh Hughes, Aldford, and Mr. S. Willis, Tarporley. The best cultivated farm was adjudged to be that of Mr. J. Barker, Rushton, Tarporley. In this competition there were only five entries. The local committee's principal prizes for cheese were taken by Mr. John Davies, Chester, and Mr. Joseph Jones, Chester. The inducements held out by the local committee also brought out a very good show of poultry. The judges were: Cheese and butter, Mr. Pedley, Crewe; Roger Bate, Ash Hill, Tarporley. Stock: Mr. Atherton, Speke, Liverpool; Mr. Bell, Bodibyddan, Rhyl. Pigs: Mr. P. Eden, Salford; W. Gamon, Chester. Sheep and wool: Mr. Mansell, Wellington, Salop; Mr. Allen, Eccleshall. Horses: Mr. Bromley, Lancaster; Mr. Roxburgh, Caerllo, Llanrwst, Hunters and hacks: Lord Combermere. Vegetables and farm produce: Mr. T. Tinckett, Rushton.

LOUGHBOROUGH AGRICULTURAL ASSOCIATION.

According to Mr. John Bennett, one of the judges, there were some good horses at the show, and some very inferior. As a breeder for forty years, he bred none but thorough-bred, they being the only animals able to carry fifteen-stone men across country. He should like this principle to predominate in the county. Mr. Bland, of Gaddesby, as one of the judges of cattle, after being here for five or six years, had seen the best cattle to-day ever seen in Loughborough. The prevalence of foot-and-mouth disease prevented the appearance of many animals that would otherwise have been sent. Some of the roots were unusually fine.

PRIZE-LIST.

JUDGES.—CATTLE: Mr. Chapman, Upton, Nuneaton; Mr. Bland, Gaddesby, Leicester. **SHEEP AND PIGS:** Mr. Goodwin, Langar, Elton, Notts; F. Spencer, Claybrooke, Lutterworth. **HORSES:** Mr. Thacker, Amberstone Grange, Derby; J. Bennet, Husbands Bosworth Grange, Rugby. **CORN:** J. T. Jackson, Loughborough. **VEGETABLES AND ROOTS:** Mr. Smith, Loughborough; Mr. Hickling, Loughborough.

CATTLE.

Dairy cow, that has had a calf previous to the 1st July, 1872.—First prize, W. P. Herrick, Beaumanor Park; second, — Cumberland, Charley. Highly commended: W. P. Herrick.

In-calf heifer, under three years of age.—First prize, R. Lacey, Hoton; second, F. Keightley, Thorpe. Highly commended: — Loseby, Burton.

Pair of yearling heifers.—First prize, W. P. Herrick; second, J. Tyler, Loughborough. Highly commended: W. P. Herrick.

Bull, over ten months, and not exceeding two years of age.—Prize, W. P. Herrick.

Bull, over two years of age, that has served cows this season within the limits of this association.—Prize, — Smalley, Bishop Meadow.

Cow, which has had a calf since January 1, 1872, the property of a cottager wholly engaged in agriculture.—First and second prize, H. Brooks, Burton Wolds.

SHEEP.

Five long-wooled ewes.—First and second prize, — Allen, Thurleston; third, — Redshaw.

Five long-wooled theaves.—First and second prize, W. P. Herrick; third, G. Chapman, Quorndon.

Five long-wooled ewe lambs.—First and second prize, G. Chapman; third, T. B. Bosworth, Dishley.

Ram, used by a member of his own flock.—Prize, G. Chapman.

Five theaves of the short-wooled breed.—First prize, C. Ashton, Mapplewell; second, H. Barrowcliffe, The Parks.

PIGS.

Boar.—Prize, W. P. Herrick.
Sow for breeding purposes.—Prize, M. Woodroffe, Stanford. Commended: J. T. Bolesworth, Quorndon.

Gilt, under twelve months.—Prize, M. Woodroffe.

HORSES.

Hunter.—First prize, J. Nixon, Rempstone; second, W. P. Hubbersty, Wirksworth.

Hunter, above four years of age.—First prize, M. Lewis, Nottingham; second, M. H. Lees, Birstall. Commended: T. B. Bosworth, Dishley.

Four-year-old hunter.—Prize, T. Cross, Melton Mowbray.

Gelding or mare of the hackney kind, not thoroughbred.—First prize, G. Payne, Leicester; second, — Humphreys, Woodhouse.

Brood mare of the hackney or hunting kind, with a foal at her foot.—Prize, W. H. Cuffling, Lockington.

Gelding or filly of the hackney or hunting kind, under three years old.—First prize, C. Ashton; second, J. Thompson, Kings Newton.

Mare and foal of the draught kind.—First prize, W. Gill,

Burton-on-Wolds; second, J. Marsh, Woodthorpe. Commended: W. Bryans, Six Hills.

Gelding or filly of the cart kind, under three years old.—Prize, H. Spencer, Loughborough.

Gelding or filly of the cart kind, under two years old.—Prize, J. Tyler.

Entire cart-horse.—Prize, H. Spencer.

CORN.

One bushel of red wheat.—Prize, R. Lacey.

One bushel of white wheat.—Prize, R. Lacey.

One bushel of barley.—Prize, R. Lacey.

One bushel of beans.—Prize, — Claridge, The Parks.

VEGETABLES AND ROOTS.

Ten ox cabbage.—Prize, J. Tyler.

Ten globe mangold wurtzel.—Prize, J. H. Renals. Highly commended: W. P. Herrick. Commended: — Darker, Quorndon.

Ten Swedish turnips.—Prize, C. Keightley, Knightthorpe Lodge.

Ten long white or red mangold wurtzel.—Prize, — Smith. Ten ox cabbage.—First prize, — Dobell; second, — Pickworth.

Ten long mangold wurtzel.—First and second prize, G. Heafford. Highly commended: — Dobell. Commended: J. Morris.

Ten globe mangold wurtzel.—First prize, — Dobell; second, — Claridge. Commended: — Dobell.

Ten Swedish turnips.—First prize, J. Tyler; second, G. Heafford.

Ten common turnips.—First prize, J. Tyler; second, H. Barrowcliff. Commended: J. Darker.

Ten carrots.—First prize, Colonel Packe; second, — Pickworth.

Gallon of potatoes.—First prize, G. Heafford; second, and highly commended, — Pickworth. Commended: J. Tyler.

Four gallons of potatoes for farming purposes.—Prize, — Dobell. Highly commended: — Pickworth.

Four gallons of potatoes for garden purposes.—Prize, — Pickworth. Highly commended: J. Tyler.

THE TENURE OF LAND AND TENANT-RIGHT.

A meeting of the Devon Central Chamber of Agriculture, adjourned from the previous week in consequence of the small attendance at the regular quarterly meeting, was held at the Newton Townhall, for the purpose of hearing from Mr. H. H. Watson, of Dartington, a paper on "Compensation for unexhausted improvements, and the general conditions of the tenure of farms." Mr. Elias Ford was in the chair, but the attendance again was exceedingly meagre.

MR. WATSON said: Soon after the formation of the Devon Central Chamber of Agriculture, the question of leases and the tenure of farms was introduced by our friend Mr. Ford, and, in the course of the discussion, I stated that it was, in my opinion, the most important that could be brought before chambers of agriculture. That opinion has been strengthened by what has taken place since then. I allude to the increasing demand and the inadequate supply of the necessities of life which come from the soil of this country. The impression seems to be gaining ground that the productive powers of the land in this country have not hitherto received that encouragement which is necessary in order to meet the wants of our increasing population. It is highly satisfactory to find the Central Chamber of Agriculture in London taking up this question, and to find that influential landowners are willing to take part in the discussion, with a view to removing the obstacles to a more generous and liberal system of cultivation which, if followed, must necessarily lead to increased production. There has been considerable objection shown at the local chambers by some landowners to entertaining the question at all. It seems to be thought by these latter that the discussion of such a question by tenant-farmers must necessarily be in a spirit of antagonism to landowners. I myself, as a tenant-farmer, disclaim any feeling of the sort, and am only desirous that the question shall be discussed on the broad basis of what is best for the whole community—the landowners, the farmers, the labourers, and the consuming public generally. It is surely not required that I should here enter upon an elaborate argument to show the desirability of increasing the supply of the food of the people. It is also unnecessary that I should occupy your time by endeavouring to show that good farming is more productive and more profitable than bad. But what we want to find out is whether the general conditions of the letting of farms, as at present in use, are best calculated to improve cultivation or otherwise. We have often been told that this is a question between landlord and tenant simply, and that the public have no right to interfere; but the pressure of high prices upon people of limited incomes, and upon all that large number of persons who are neither owners nor occupiers of land, is causing the latter to give a great deal of attention to the subject. I must say I rejoice that the Central Chamber have recommended the discussion of it. It is surely far better that the landowners and farmers should be able to agree upon such a change in the general conditions of farming as shall,

by removing the objectionable restrictions as to cropping, and by a system of compensation for unexhausted improvements, lead towards increased production, than that the Legislature should be called upon to interfere after an angry agitation by the people of the towns. It is surely unwise for the landowners to drive the farmers to the conclusion that they will only get fair play by the help of the townspeople. That the landowner, in letting his land, should be protected against deterioration by bad farming, is nothing but fair; but I submit the laying down a rigid course of cropping and manuring is not the best way of doing this. The seasons vary, and the soils and situations vary, and no rigid course can be applied in all cases. It seems to me that the farmer, as a rule, ought to be allowed to use his judgment and experience in the cropping and manuring of his farm, and, by way of security to the landlord, I believe that the provision contained in the first of the resolutions at present before the Central Chamber would be found sufficient, viz.: "That the landlord should be paid by the outgoing tenant for dilapidations and deteriorations," the amount to be determined by valuation. The whole of the first resolution submitted to the Council of the Central Chamber stands as follows: "That this Council considers it necessary for the proper security of capital engaged in husbandry that in the absence of a lease or agreement to the contrary, the out-going tenant should be entitled to compensation from the landlord or incoming-tenant for the unexhausted value of his improvements, subject to the previous consent of the owner in the case of buildings, drainage, reclamation, and other improvements of a permanent character; and that, at the same time, the landlord should be paid by such outgoing tenant for dilapidations and deteriorations—amounts respectively due to be determined by arbitration." I feel confident that the general adoption of the principle contained in this resolution would give a great stimulus to the employment of more capital and more energy in the cultivation of the land. To use the words of a friend of mine, "What wouldn't a man do in the way of improvements on his farm if he only felt secure that the owner could not take possession of such improvements before he had got a fair return?" An influential Member of Parliament for an agricultural district—Mr. Clare Sewell Read—dwells very strongly on the ill effects arising from so large a portion of the farmer's capital being quite at the mercy of the landlord. The experience of the past with regard to capital does not justify us in expecting a liberal outlay under such circumstances, and it is in this direction we must look for the cause of the imperfect and unprofitable state of cultivation which we must admit is to be seen in many parts of the country. The restrictions and conditions as to cropping and cultivation which are to be found in agreements in general use appear to a disinterested person to be framed with a view to limit the productive powers of the soil rather than to stimulate and increase them. It is surely unwise, in the face of the

present demand, to confine a farmer to one-third of his arable land for his corn crop. It has been shown by careful and continuous experiment that upon some soils wheat may be grown year after year for thirty years, and grown at a profit without injury to the land, the crops throughout being equal at least to the average of the country, and the last crop as good as the first. I refer to such soils as are not favourable to the growth of green crops, and it is probable that our heavy clay lands could be more economically cultivated upon his system than upon a system which requires a great outlay of labour in breaking up from ley and preparing for wheat. It is also difficult to understand why farmers are not to grow two grain crops in succession. Experience has shown in numberless instances that barley grown after wheat produces better samples for malting purposes than when grown after green crops. Again, why is a farmer not to grow potatoes, except to the extent of about one acre in eighty? Is this because the produce is carried off the farm? The inadequate supply of the necessities of life is causing the consumers to ask why there is not more produce brought into the market; and also how they are to be fed if the produce of the land is not to be carried off the farms? Equivalents in the shape of manure are easily procurable, and I repeat that these restrictions are unwise, and are injurious to the community without corresponding benefit to the landowner. I have been informed that these restrictions are inserted as a protection to the landowner, and so long as the tenant pursues *an even course*—whatever that may mean—will not necessarily be enforced. I can scarcely conceive a more humiliating position for an intelligent farmer to be placed in than to have signed conditions, with the understanding that the penalties will not be enforced so long as he conducts himself generally to the satisfaction of the landlord or his agents. If, after having signed conditions like these, he is indiscreet enough to have any conscience of his own in social or political or religious matters, he is in constant danger of the penalties, and a six months' notice to quit his farm, without compensation for any improvements he may have made. And this I fear is the position of a majority of farmers. The injustice of such a state of things is so great, that I believe it is only necessary for landowners to give their unbiased attention, to it instead of trusting to lawyers and stewards, in order to its being redressed. I look upon these two latter classes as being mainly instrumental in preserving the objectionable features generally to be found in present leases. The lawyer, having in view the protection of the landowner's interest—an object quite right in itself—sets about preparing a very abstruse and elaborate document, which has to be paid for in proportion to its length, which often requires a legal training to understand, and which bristles with restrictions calculated to prevent whatever energy and ingenuity and skill the farmer may possess from being applied to the farm. The protection of the owner's interest may be secured by a simple clause giving him the power to recover from the tenant, on his quitting the farm, such a sum as compensation for injury to the farm as shall be awarded by impartial valuers, in the same way as he recovers his rent. Such a clause I should be willing to agree to and to see enforced; for I consider that the man who on quitting his farm leaves it in a worse state in point of fertility and general cultivation than when he entered upon it, commits an injustice towards the owner, and should be held responsible for so doing. This clause, and one recognising the right of the tenant to all improvements made by him, and to all unexhausted manures, would comprise nearly all that is requisite in order to give free scope to the application of more capital to the land. The penalties for breaking up old pasture or meadow land, and for cutting down timber, should of course be so severe as to be equivalent to a prohibition. With regard to the other class mentioned, viz., the stewards and agents, I believe there are many of them who have used their influence in the way of removing some of the objectionable conditions I have referred to, with the best results; but it is to be feared that these are exceptional cases. As a rule, the obnoxious features of the system continue in force, and some stewards appear to enjoy the power it gives them to worry and bully a tenant, and are sometimes found capable of acts of intimidation, and coercion, and petty tyranny, which a landowner with the instincts of an English gentleman would shrink from. In introducing this subject, I have taken the ground that it is necessary, in order to improve the cultivation and increase the produce of the land, that the farmer should be entitled to compensation for

his improvements. Keeping this object in view, it is also necessary that he should be compensated for any excessive damage done to his crops by game and rabbits. Experience is a sharp teacher in these matters, but a casual observer can hardly fail to see that there are few things more discouraging to a farmer, or which have a more depressing effect upon his energies, than to see the crops he is endeavouring to raise destroyed day by day by vermin which he has no right to touch. The injury done by rabbits, which are incessantly nibbling away at the crops from the time of their appearance above the surface up to the time of ripening, is greater than is generally known. Mr. C. S. Read, whom I again quote, as being a man of practical experience as well as of great intelligence, and who cannot be suspected of any hostility to the landed interest, estimates the injury done by rabbits on cultivated farms to amount to the value of one sheep for every four rabbits. At the present price of mutton the rabbit must be a costly animal to rear on such farms. With regard to pheasants and partridges, the case is different. The latter may, I believe, be set down as doing more good than harm. Pheasants also, if treated naturally as wild birds, are not objectionable; but it is when these are artificially increased, forced as it were, that they begin to cost more than they are worth. When we take into consideration the cost of purchased food, of gamekeepers, watchers, &c., I can easily believe that the estimate of £1 a head which we have often heard, is not excessive, extravagant though it may appear. I am informed that gamekeepers find that rabbits boiled, or converted into maggots, furnish excellent food for pheasants; but, if this be so, it must be a very expensive food, according to Mr. Read's estimate of the cost of rabbit's flesh. I would suggest, as a matter of economy, they should invest in a few tens of Australian mutton for them. I will not stop here to inquire if the whole cost of rearing pheasants upon this system is borne by the owner, or whether a portion does not fall upon the farmer and upon the general public. There are some landowners who appear to have solved the problem how to have a fair head of game on their estates without incurring this great expenditure. After having tried the old way, viz., by gamekeepers, some of whom place weasels and stoats, crows, and magpies, poachers and farmers all in the same category, and look upon them as their natural enemies—after having tried this plan, and found the result unsatisfactory, a landowner holding a first-rate position in this county determined to try the plan of trusting the tenants of his farms to look after the game, with the understanding that there was to be fair shooting found on the estate for himself and his friends. The tenants were glad to comply with these conditions, and I believe that neither the landlord nor his friends have ever regretted the change. His table has been well supplied with game, his friends find fair and satisfactory shooting on the estate, and the farmers take care to prevent the rabbits from doing excessive damage. We have often heard at agricultural meetings in former days that confidence in the landlord is a better thing than any lease or other security. It occurs to me that a little confidence in the tenant in these matters would not work badly. Farmers in general are not averse to fair sport and recreation for those who have leisure for it, more especially such sport as may be shared without hindrance by all who can find time for it. Hunting is far more popular than shooting, for the reason that it is less exclusive in its character, and affords amusement to a larger number of all classes; and I consider it a gratifying sight to witness, as we sometimes do, hundreds of people, unable to afford to keep a horse, yet heartily enjoying the sight of the foxhounds drawing a cover and finding a fox; whilst the injury done by riding across fields in the winter is very slight compared with the injury done by four-footed animals bred for the purpose of shooting. There is no amount of money compensation to the tenant which will fully meet the justice of the case. Amongst the things that reconcile the farmer to the absence of that variety of social intercourse which is to be found in towns is the pleasure which he feels in watching the progress of his crops towards maturity. The attacks of the numerous insect tribes, and the blights, whether caused by these (as shown to us by the late talented and lamented Mr. Kirwan), or by atmospheric influences; the recovery, either wholly or partially from these attacks; and the gradual ripening and gathering of the crop, form a never-ceasing subject of interest to the farmer. Many years' experience of meeting my brother farmers at markets has made me familiar with the fact that the most intelligent and active-

mined amongst us are fond of pointing to those of our crops which are better than our neighbours; and who that attends agricultural meetings has not witnessed the gratification that a man displays when he is announced as the winner of the first prize for mangold or turnips, or for the best samples of barley? In all this there is, perhaps, a touch of vanity, but it is pardonable, as it shows the interest and the just pride a man takes in doing his part towards the fulfilment of the ancient promise that "the land shall give forth her increase." But what becomes of all this feeling in the case of a man who goes out to sow or to plant his crop with the fore-knowledge that it will not be allowed to come to maturity; that he will never see it ripen; that he will not reap where he has sowed; but that it will be eaten and trodden down by hares and rabbits? He may get from the owner the estimated value of the crops destroyed—there are many cases in game preserving districts where this compensation has amounted to a sum equal to the full rent of the farm, and sometimes even more—but this is a poor equivalent. Even supposing the rabbits and hares to be sent to market, it is still but a poor equivalent for the bread, and beef, and mutton, which cultivated land ought to, and would, produce. The whole system of the excessive and unnatural preservation of these animals, with its consequences, wears a bad aspect, and it would be wonderful if it did not cause excitement and agitation in the public mind. But I am not claiming for the tenant-farmer that he is more trustworthy than another man. I look upon tenant-farmers as a class possessing about the same amount of selfishness and narrow-mindedness as is to be found amongst other classes—neither more nor less. But I would have no trusting or mistrusting in the matter of cultivation. The landlord, in letting his farm, should take the same security for its being returned to him in fair condition as he takes for his rent. The second resolution before the Chamber in London refers to the schedule of allowances to be framed for the guidance of arbitrators in the different districts. I do not anticipate much difficulty in this matter when once the principle is conceded, and will not, therefore, dwell upon it now. The third resolution deals with the question of the six months' notice, and I need not dwell upon this further than to say that six months is a very short time for a man to get out of one farm and into another, and that the power it gives to the landlord may be, and often is, used very tyrannically. I am unable to see the objection to substituting twelve months for six, unless it be that it will take away a portion of this power. Upon the whole I believe that the resolutions before the Central Chamber are such as will fairly meet the case. The prime object is to increase the produce of the land and the readiest mode of doing so appears to be the removal of the restrictions which tend to prevent the application of more capital to the cultivation of the land; and I appeal to the tenant farmers now that the action of the Central Chamber in London gives them the opportunity to unite in an effort to obtain possession of their farms upon conditions which will give them security for the investment of more capital. I appeal to them to do this, not in their own interest simply, not in any spirit of hostility to the owners, for it must tend to their benefit also as well as to the labourer and the consumer. The advantage to the labourer would be of a two-fold character. It would increase the demand for his labour and the amount of his wages, and would tend to increase the supply and lessen the cost of his food. Any improvement in his condition arising in this way would be better than anything to be expected from the well-meant, but, as I think, misdirected efforts of such as the Rev. Canon Girdleston. I have never doubted the sincerity of his desire to benefit the labourer, but if he and such as he would give their powerful aid towards such an improvement in the general conditions of farming as would lead to increased employment for the labourer, instead of his seeking it elsewhere, they would be doing more good to the community. One of the worst signs of our times is the decrease of the country population and the rapid increase of the towns. Something surely may be done in the direction I have indicated to arrest this tendency. With such an increase in his wages as would enable him to pay the rent of a better house and a larger garden, and purchase a little more bread and meat, the labourer in the country may lead a healthier and a happier life than his fellow labourer in the town, and landowners and farmers would share in the benefit. I repeat that I appeal to the farmers, not in their own interests simply—for those who seek

their own advantage in a narrow and exclusive spirit are often found to defeat their own object and to miss the mark they aim at. But if I am in error in attributing our short-comings in the matter of producing food from the land to the want of security for the farmers capital; then, I say, let us endeavour to find out whence our failure arises. The fact lies clearly before us that the produce of the land is not keeping pace with the requirements of the people. Practical and experienced men are convinced that more produce can be raised with greater profit to the producer than is done at present. Let us try to find out what hinders this. There is abundance of capital in the country seeking for safe investment. Enormous amounts of English capital find their way to foreign countries whilst our soil is able to yield a good return for more capital sunk in it. Let us, I repeat, try to find out what is the cause of this. Do not let us clothe ourselves with the idea that because we can point to a considerable improvement in cultivation during the last quarter of a century that we may now "rest and be thankful." There is no resting place, no limit so long as it can be made to pay, and the purchasers of agricultural produce seem bent upon placing that beyond a doubt. I appeal to landowners to come to our chambers, and if the views I have placed before you are erroneous, to show where the error lies. I feel that the matter will not be allowed to rest where it is, the question of local taxation is being forced upon the attention of the Legislature by those who believe that the land is unfairly burdened. But the Legislature in dealing with it will not forget that they represent also that large section of the community which, rightly or wrongly, believe that the land enjoys exemptions and privileges which fully compensate for the so-called burdens, and believe also that with the present high prices these burdens do not fall wholly upon the owners and occupiers of land, but in part at least on the consumer. I appeal therefore to landowners not to think only of their own security and their own privileges, but to try and settle some of these questions without the help of the Legislature. A mutual effort by owners and occupiers made in the interest of the public as well as in their own, can hardly fail to work some good. But it must not be made in any narrow spirit of self interest; for whilst I wouldn't give much for the man who did not in a general way remember No. 1, still I never hear the saying "Every man for himself and God for us all" without thinking that it would be wiser and more commendable for each and all of us to endeavour to some extent to realise the idea embodied in that other saying, which is, "Every one for each other and God for us all."

Mr. G. SROOKE said, in his opinion, Mr. Watson had left untouched a very important point, namely, as to what measures should be adopted to secure the in-coming as well as the out-going tenants against imposition. In his little experience he had known not a few men who had suffered considerably, in consequence of the misrepresentations made to them by their departing predecessors of the value of the farms they were about to take; and whilst he agreed that out-going tenants should be remunerated for improvements made by them of which they had not derived the full benefit, he thought there ought also to be adopted some system by which satisfactory vouchers should be given to a party desirous of taking a farm of the accuracy of the representations made as to its value. This question he believed well merited the attention of the Central Chamber; and would have to be settled whenever the method of remunerating out-going tenants should be decided.

The Rev. Preb. HAWKER, as a holder of glebe lands, rented of him by a tenant, to whom he had not the power of granting a lease, had felt so strongly the injustice the man might be subjected to by being turned out of his holding by a successor to the living, without any compensation for the improvements he had effected, that he had given him the power to claim of him (the speaker) and those who came after him, as far as that was possible, compensation for any improvements upon the glebe lands. He thought that this would be the best policy of all clergy holding glebes. Such a small attendance as there was that day was simply ridiculous. He regretted that landowners as well as farmers did not attend the meetings of that chamber, which were calculated to be of as great service to the one as the other.

Mr. J. D. OLDRIEVE thought the paper dealt rather harshly with land-agents, as apart from lawyers—agents who, as a rule, did know something about farming and the duties of

their position. The mischief occurred when lawyers who knew nothing whatever about farming were entrusted with the management of estates, and drew up leases in a form in use perhaps two hundred years ago, which often bound the farmer down to all kinds of impossible things.

Mr. W. SOWTON thought the greatest difficulty they had to meet was the superabundance of farmers. When a farmer wished to take the lease of a farm, a long list of conditions was presented to him, and if he objected to submit to them many others willing to do so could be found. Landlords, as a rule, listened too much to what their agents had to say, and seemed to regard their tenantry with mistrust, and imposed restrictions which were unfair. He thought if more latitude were allowed the farmer in the cultivation of his land he would till so as to make the best use of it. As to the lawyers, he didn't think much of them. Their conduct in adhering to the form of lease in vogue 150 years ago and more he considered most ridiculous. All that should be remodelled, and the farmer of the present day should be provided with a lease suitable to his circumstances. That which was right and fair should be done; but this was impossible in the case of those who were tenants-at-will, and who could at any time be turned out at a six months' notice, without any compensation, however high the state of cultivation in which their farms might be. The restrictions generally laid down preventing a farmer from selling hay and straw off his farm he believed to be very harsh, as it prevented men taking that kind of produce to the best market. He contemned the charge made against the members of that Chamber that they were acting in antagonism to the landlords.

The CHAIRMAN took exception to the rather uncompromising manner in which land-agents had been dealt with in the paper, and alleged that there were among the land-stewards of this county men who understood well good farming when they saw it, and acted as if they understood; and unless a man possessed that knowledge he was certainly not fitted to hold that position. He had seen in the public prints some time previously an account of a meeting of an agent with his employer and with his employer's tenantry, when not a single

complaint against his administration could be advanced on either the one side or the other. That was the sort of man to occupy such a position. With all deference to the lawyers, he did not know of any class of men less calculated to discharge such duties, and they were the very last he should be inclined to ask to draw up a lease for the tenant-farmer. What had been said as to the text of the leases frequently drawn up in the present day being identical with those under which farms were held 150 years ago, was to a very great extent true; and it was well known that if a lease prepared 50 years ago was to be compared with one drawn up in the present day there would be scarcely any difference in them. This could not be right. If a simple form of lease could be prepared, a great deal of the ground of complaint would be removed. As to adhering to the terms of a lease as at present drawn up for three months together, it was simply an impossibility for the tenant to do it. It was an evil he should be very glad to see remedied by some means or the other, and a farmer should be placed in a position to stick to a lease the terms of which he undertook to fulfil. In the Rev. Prebendary Hawker's expression of regret that there were no landed proprietors present he concurred most cordially. He knew there was a feeling abroad that that Chamber sought to get up a bad feeling between landlord and tenant. The contrary was the case, and the supporters of it believed that if the landowners would only consent to meet their tenants there to discuss questions fairly and properly, a great deal now complained of would soon be removed, and the result would be beneficial to both parties and to the community at large. In reference to the notice to quit, he was of opinion that a great many of the hardships now endured would not have to be submitted to if the length of notice were twelve instead of six months.

Mr. WHITEWAY, in defence of the lawyers, laid the blame of preparing bad leases on the shoulders of the agents, under whose instructions they acted.

Mr. WATSON replied to those who had taken part in the discussion on his paper, and the meeting separated, after a vote of thanks had been accorded to the chairman.

TENANT-RIGHT.

The following is a corrected copy of the paper read by Mr. J. R. EVANS at Newbury:

Before entering upon the subject which we are met to discuss to-day, allow me to say that I had quite hoped it would have been introduced by a gentleman who has had far greater experience in the matter than I can lay claim to. If you remember we were to have had a paper on Middle Class Education at our May meeting, but just at the last moment the gentleman who had been expected to give us that paper wrote to say that he was unable to do so. Our chairman then thought that as the Central Chamber took this question of Unexhausted Improvements at their June meeting it would be better for us to pass some resolution upon it. However, there had not been sufficient notice to get such an important question properly discussed, and so the matter was allowed to stand over, and it appears that the Central Chamber has pursued much the same course; wishing to obtain the opinions of all the provincial Chambers on the subject, and I believe it will come first on their list at the meeting in November. Failing then the gentleman before referred to, I will do my best to bring the subject before you, though I fear I shall accomplish the task most inadequately. Well then, gentlemen, with regard to this question of Compensation for Unexhausted Improvements, I think it is one which is very much misunderstood by numbers of persons who imagine that directly this term or that of "Tenant-Right" (which is considered still more objectionable by many) is made use of, that tenant-farmers wish to encroach upon the rights of the owners of property, and to obtain that which would be prejudicial to the landlords' interests. We well know, however, that this is far from the real case, and that were the custom of an equitable scale of compensation established it would be greatly conducive to the increased value of the landlord's property by promoting a very much larger

outlay of capital on the land, while it would at the same time add to the tenant's security, and justify him in the outlay of that capital which he certainly is not warranted in making, in most instances, under the present system of tenure. In passing I must, I suppose, just notice the Irish Land Bill, and say that English farmers would never dream of anything of the sort. For a tenant to want compensation on quitting solely from the fact that he happens to hold land, appears to me perfectly preposterous, and would prove eventually to be most injurious to the interests of tenant-farmers. But what we want is only that such a custom should be established that the tenant should be repaid for that outlay of capital and skill which he has made, from which his successor and not himself will reap the benefit. *Leases*: To enter more into detail. I consider a lease of say twenty-one years far better than a yearly tenancy, as this will give much greater liberty of cultivation than an agreement from year to year. The landlord is more particular in his choice of a tenant in the case of a lease, and should then give him perfect freedom in cultivation to say, within the last four years of its expiration, when the farm should be brought into such a course as may be necessary from the custom of the district; instance Lord Leicester's lease, which (though many may object to some clauses as being unnecessary and vexatious) is decidedly much more liberal than most, and a step in the right direction. With regard to leaving the tenant unfettered during the currency of the lease by the absurd and harassing cropping clauses which one so often finds in leases, I would say that clean cultivation is much more necessary than any fixed rotation of crops. I think Mr. Lawes' experiments at Rothamsted quite prove this, and that as long as the land is free from weeds, and fairly good crops are grown, the fee-simple cannot be injured by any system of cropping; of course the requisite manure, whether artificial or otherwise, must be used. A scale

of compensation should then apply at the end of the lease, precisely as it should in a year-to-year tenancy; this would promote good farming up to the termination of the lease, and a favourable entry for the tenant's successor. *Yearly Tenancy*: Where a yearly tenancy is customary I think there should certainly not be less than a year's notice, instead of six months', to expire at the date of entry. In this case there is the more necessity for a custom of compensation to be established. I will now give an outline of the points on which I think such a system of compensation should be brought to bear: First, draining; second, grubbing hedge rows, &c.; third, chalking; fourth, cake or corn consumed by stock; fifth, artificial manure used for roots or green crops which are fed off on the land. I also think the point of the clean cultivation, or otherwise, of the farm should be considered; but this, I know, would be very difficult to carry out. *Draining*: I consider that much the best way (where such a course can be carried out) is for the whole land requiring draining on an estate to be done as nearly at one time as possible, either by the landlord himself or by one of those companies which now carry out draining in such a first-rate manner, charging the tenant a percentage on the outlay. This would obviate all claim for compensation, and is far better than the tenant doing the drainage entirely, or than—as is customary in this district—the landlord finding pipes and the tenant putting them in. In the first case, the proper outfalls for all the land can be made without regard to only one particular farm or field, and the tenant gets the benefit at once, as the draining is done rapidly and he only has to give a yearly rent for it, instead of paying down a considerable sum at the commencement; in the other the draining is done comparatively slowly, and in many cases occupies from half to three-quarters of the term before all the land requiring draining is finished. However, in many instances, a tenant finds that his land is absolutely worthless to cultivate without draining, and thus rather than leave it undone he is obliged to do it either wholly or partially himself. Unless, then, the tenant afterwards enjoys the benefit of the drainage a sufficient number of years to repay him for his outlay, I think you will agree with me the full cost should be allowed to him, unless such part as may be agreed on for each year of occupation since the draining has been done. *Grubbing*: Now that steam cultivation is becoming more general each year, it is absolutely necessary that many of the hedge-rows and belts of wood, old pollards, &c., should be removed from our ploughed fields, and that crooked, winding hedges should be replaced by straight ones for the economical use of the steam-horse; where this, as is generally the case, is done by the tenant, the cost should be allowed for in a similar way to that of draining. *Chalking*: I think here I shall have a more nearly unanimous agreement than on almost any point. As soon as you have drained you must chalk, but this involves a heavy outlay of from £2 to £5 per acre, and our friend Mr. Weaver tells us it will benefit the land for at least twenty years, so I say that a scale of compensation should apply ac-

cording to the time the chalking has been done. I must here remark that these three processes are likely to cost more every year from the rise in labour, which will be a still greater drawback to improvements under the present system. *Cake and Corn*: As the consumption of cake and corn so immensely increases the value of manure, whether made in the farmyard or by green crops fed off on the land, a proportion of the cost should be paid for that used during the last two years of tenancy, except that consumed by working horses. *Artificial Manures*: A proportion of the cost should be allowed for all used for roots or green crops which have been fed off on the land during the last two years of tenancy. As to grassland, I believe bones are the only artificial manure for which allowance should be made, and I do not think that will much affect this district. Some consideration, also, should be given on quitting, for fruit trees planted in orchards, or elsewhere. I do not include buildings, as these should always be put up by the landlord, or where this is not the case, there should be a special agreement respecting them. This is merely a rough outline of what I consider to be meant by compensation for unexhausted improvements, Tenant-Right, or whatever other term may be applied to the matter under consideration. I think now, if ever, it behoves us to discuss and rightly express what we want on such a subject as this. You can scarcely take up a newspaper without seeing that nearly everyone thinks he understands the farmer's business much better than the farmer does himself. There are large meetings on the one hand, which wish to add some fifty per cent. to our wages account, without at all understanding the circumstances in which the labourer is at present placed, or the total amount which he receives in the twelvemonth; and on the other hand there are meetings to protest against the price of food, and exclaiming especially that the cost of meat is extortionate. Our flocks and herds are overrun by disease, which we quite believe to be preventable, if water-side slaughter and efficient quarantine be properly carried out. The prices of coal and of iron, both articles so essential to the farmer of the present day, have risen fifty per cent. in the course of the past twelve months. If, then, I say, under all these circumstances, we are ever to enjoy our friend Mr. Mechi's millennium of agriculture, when the tenant's capital will be from £20 to £25 per acre, in order to get the largest per centage of profits, I am sure you will all agree with me we must have some sort of compensation for unexhausted improvements.

The following resolutions were adopted: "That this Chamber is of opinion that for the interests of landlord, tenant, and labourer, it is necessary that a custom of compensation for unexhausted improvements should be generally adopted throughout England."—"That a committee be appointed to decide on the system and scale of compensation most adapted to this district." A committee was thereupon formed.

THE GAME QUESTION IN SCOTLAND.

A meeting of the Commissioners of Supply of Aberdeenshire was held in the New Court House, Aberdeen, on Sept. 24, "for the purpose of receiving the report of the committee appointed at the annual stated general meeting of the Commissioners on 1st May, 1871, to confer with tenant-farmers on the game question." There was a large attendance of the Commissioners, the Earl of Kintore in the chair.

The report of the committee and their recommendations are as follows:

1. That it be recommended to the Commissioners of Supply that thanks be given to Sheriff Comrie Thomson for his kindness in undertaking to act as chairman of the Conference and of the Joint Sub-Committee; as also, for the admirable way in which he acted as chairman, and particularly for the way in which he has, with the assistance of Mr. Fraser, the assessor, tabulated the returns, and made the tables as complete as the materials at their disposal would permit.

2. That it is to be regretted that little more than one-half in

number of the proprietors, representing little more than one-third in value of the land of the county, returned the schedules issued to them with answers to the queries.

3. That your committee have, as before explained, not seen any of the returns made by tenant-farmers, except in so far as tabulated by the Sheriff and Mr. Fraser, and are unable to report the districts in which it is said that no damage is done to crops by game and other wild animals, and those districts in which it is said damage has been done, and in particular they have been unable to make inquiry into the causes why damage does still exist in some of those cases where the tenants have permission to kill hares and rabbits.

4.—That 3,817 tenants have stated that their crops are damaged by game or other wild animals; that 3,203 of these have stated that injury has been done by hares or rabbits and by hares and rabbits; that 2,267 tenants have estimated their annual loss at £19,908 14s., but your committee have not the means of ascertaining in what way the estimate has been made

up, and some additional difficulty has arisen from the mixing up in the inquiry of damages done by wild animals other than game, and by obscurity in the strict meaning of the word "game" as distinguished from other wild animals. At the same time, your committee cannot shut their eyes to the fact that there is to some extent just cause for complaint of damage done yearly to tenant-farmers' crops by game, including rabbits; and they recommend that steps should be taken, or arrangements made by, or between, landlords and tenants for removing or mitigating this evil.

5. That in the opinion of your committee, payment to a tenant for actual damage done to his turnips, grain, or grass, might not in many cases be a sufficient remedy, as in addition to personal annoyance the indirect loss might be far greater than the value of the crop destroyed.

6. That the remedy which your committee would suggest is to give tenant-farmers power to protect themselves on their respective agricultural farms; and your committee recommend that while the proprietors reserve to themselves their right to kill game, hares, and rabbits on their estates, they should give to their tenants power, by themselves or others, to kill hares and rabbits on their respective farms.

7. And in order that tenants in the neighbourhood of covers may be more effectually protected, your committee recommend to proprietors to keep down the destructive animals in these covers, and, wherever practicable, to use wire fences in protecting the tenants' crops.

8. And lastly, your committee earnestly but respectfully urge upon proprietors the expediency of giving a fair trial to the above recommendations, so as to remove all just cause of complaint, and thus to assist in maintaining the friendly relations which have hitherto existed between them and the tenant-farmers.

JOHN GORDON, Convener.

We, the undersigned members of your committee, while concurring generally in the narrative of the proceedings of the conference and committees, cannot assent to certain of the resolutions contained in the report, and that for the following reasons:

I.—The returns by the tenant-farmers as to the amount of damage to their crops "by game and other wild animals" being practically without vouchers, and no opportunity having been given of testing their accuracy, afford no sufficient ground on which to base any suggestion or recommendation.

II.—The estimates of the damage done by "game" properly so called, being mixed up in the returns with damage by "other wild animals," it is impossible to separate the one from the other.

III.—The returns afford no information as to the principle on which the amount of damage has been estimated.

IV.—The whole subject of the Game-laws being at present under consideration by a Committee of the House of Commons, any action by the county is inexpedient until the result of that inquiry shall be made known.

ALEXR. FORBES IRVINE.

WILLIAM LESLIE.

C. E. DALRYMPLE.

W. ROSS KING.

Mr. GORDON (Parkhill) the convener of the committee, stated that the resolution he intended to propose was: "That this meeting adopt the resolutions agreed to by the committee appointed on the 1st May, 1871."

Mr. LESLIE (Warhill) stated that he intended to move as an amendment: "That, seeing that the returns by tenant-farmers are practically unsupported by evidence of any kind; that the question of damage to crops by game properly so called is mixed up with the damage inflicted by other wild animals; that no information is afforded as to the principle on which the estimated loss is based; and seeing, moreover, that the whole subject of the Game-laws is under consideration by the Select Committee of the House of Commons, any further action by the county is under present circumstances, in the opinion of this meeting, unnecessary and inexpedient."

The CHAIRMAN then said that, for reasons which they all knew, he had purposely avoided mixing himself up with the game conference, and had been a silent but not an unoberving spectator of what had been going on. He was sure they would give Mr. Gordon of Parkhill his due meed of praise for the motive that prompted him to bring this subject before the county, and for the very onerous position which he volun-

tarily took upon himself. But Mr. Gordon would excuse him for saying that he had always been of opinion that this subject should have been brought before the attention of the county. No doubt they (the landlords), legally speaking, were in the wrong in not being there when the subject was first mooted, but considering the circumstance that at the time of the year when the committee was appointed they were in the south, it was too much to expect them to come back post-haste at that period of the year and take a part in the county meeting. The meeting took place, and by the Commissioners of Supply who assembled the Landlords' Committee was convened. No doubt they had acted to the best of their power, but because of the mistake of bringing such a subject forward at a spring meeting, they had not—politics quite apart—such representative men upon the committee as the Duke of Richmond, Lord Aberdeen, Sir James Elphinstone, and Sir Archibald Grant. He said so because what had taken place had given some ground for the implication that they, as the landlords of the county, took no interest as a body in a subject which vitally and personally concerned them. But the committee having met and drawn up a report, he suggested whether it would not be better for them, one and all, to come to this conclusion, seeing the peculiar circumstances in which they were placed, and the keen feelings entertained by both landlords and tenants, that, whilst they thanked the committee and Sheriff Thomson for the trouble they had taken in the matter, they dissolve the committee and respectfully dispense with its recommendations—but still with not the slightest wish that this subject should remain where it was. If tenants suffered from grievances, they were, he thought, bound to represent them to their landlords, and the landlords were bound to take cognizance of them and endeavour to redress them, instead of bringing them up at a meeting like that. He thought that it would be well at least to let a little time elapse before taking any action, that the strong feelings on both sides might have time to subside, and in the meantime for landlords to meet with the tenants on their own property and endeavour to come to such agreements as would remove all just ground for complaint on either side, and would show to Parliament that the county of Aberdeen did not regard the question as one which could not be settled without legislative interference. There was a day when the county of Aberdeen rose and stamped out the cattle plague; might not a day arise when it would stamp out this game grievance and implant in the minds of the tenantry confidence in their landlords, and in the landlords that kindly and generous regard to the interests of the tenants which the tenants had a right to expect at the hands of their landlords? He spoke only of himself. They would excuse him making a personal remark. He envied no man's tenantry and no man's game when he spoke of himself and his tenantry. As between him and his tenantry, he was happy to say that game grievances they had none, and were not likely to have. The recommendation of the committee was coincided in by his honourable friend the member for the Western Division of Aberdeenshire, who came and asked them to give the tenants an unrestricted right to kill hares and rabbits. His honourable friend was entitled to hold his opinion as to the propriety of this being granted to the tenant-farmers, but he (the Chairman) was not prepared at this stage of the proceedings to consider that. He did not think they were in a position properly to consider the matter. The unfortunate way in which landlords and tenants had been pitted together rendered it very difficult for any of them to think calmly and speak quietly upon such a topic as that. But while he said this, it must not for a moment be thought that he did not sympathise with the tenantry of the country. God forbid that that should be the case, for he thought the landlords were more dependent upon their tenants than their tenants were upon them. He might be wrong, but, holding such a view as that, he had had the greater pleasure in knowing that since the 3rd August, 1866, each of his tenants were at liberty on their own farms to shoot the rabbits and hares, upon the distinct understanding that they did so themselves or by their deputies only. Game grievance, indeed! Talk about the abolition of the Game-laws! He told the tenants what this would come to. It would lead to the abolition of themselves, and to the abolition of landlords in the interests of the public and the poacher. Were they to meet there and listen to such a cry as that? God forbid that that cry should ever go forth. God grant that through their kindly help and through

their cordial co-operation each landlord might take such steps as would satisfy both himself on the one hand and his tenants on the other, and not spread a game-question grievance broadcast over the county, but convene his own tenantry and see to it, that the interests of his tenant were first looked to, then his own interests, and then the interests of his shooting friends that come down and visited him in the autumn. He believed this was a question in which they had to give and take. As a landlord he did not wish to concede everything; but he might tell them what was the undercurrent of thought that was running in the minds of many of the tenantry. It was not that they should not be pleased to see the landlord with his party of friends having fair sport when he should wish it. If they would not be pleased to see the landlords having this he would not sympathise with them. But he had a sympathy with them when they saw estates—he named none—brought to such a pass that they had to have their annual battue, and they knew what sort of preservation of game led in the end to the battue. It was, he believed, the secret of many of the tenants' fears and alarms. There was a great cry for the interference of Parliament with the Game-laws! He thought they would have to wait a long time before they got a game bill passed then. Let them take the initiative step in the way he had proposed, and not take it for granted that because they let the tenants take an inch they would take an ell. He believed that there were black sheep amongst the tenants as amongst every other class, but he did not think they should take for granted that what the black sheep would do the tenantry as a body would do. He thought they might easily come to a decision with their tenantry that would be for the interest of all concerned.

Mr. GORDON (Parkhill) said that, notwithstanding the remarks that had fallen from Lord Kintore, he was as satisfied in his own mind as to the propriety of having invited that game conference, and having done it at the time he did, as it was possible for a man to be. He had been a member of that body for a longer period of time than most men there, having been a commissioner since 1848, and he was satisfied that they had never had a meeting at which the issues of their proceedings were pregnant so much with good or evil as they were that day. He trusted that before they came to any decision they would consider well what might be the issues of it. The report before them was a report approved of by every member of the committee, with the exception of the four dissentients mentioned in it. He believed he was entitled to say that, for although there were two or three members of the committee who attended only a few, and one who attended none of the meetings, at the close of the proceedings a narrative of them was drawn up and sent to each member, inviting him to make criticisms upon it, and with the exception of the four persons he had spoken of, there were no dissentients. That they should have had criticisms both of their proceedings while these lasted, and of their report, was only to be expected in this age of criticisms. It was, they should remember, much easier to be a critic of the actions of others than to act for themselves in the same circumstances. He thought that had been proved by some of the adverse criticisms they had seen in the public prints, sometimes anonymously and sometimes not; for he did not think if they had added the writers of these criticisms to their committee they would have added much to the wisdom of it. Some of these were honest criticisms, no doubt, but they were founded upon a want of apprehension of the purpose of their conference. They had been found fault with because the critics said they were gathered together to settle the question of the Game-laws, and to settle the meat question of the nation. They had never contemplated any such thing. They had no power to alter the land laws, or to settle the meat question. They met as a committee of the proprietors of Aberdeenshire to confer with a committee of the tenants of the county agreeably to the resolution passed at the meeting in May 1871, to remove, if possible, all just cause of grievance existing between the landlords and tenants; and when they undertook that they undertook a work which the landlords and tenants of the county were competent to do, and which it was their duty to do. They did not take upon themselves the absurd task of legislating for the nation at large. If they succeeded in what they undertook they would succeed in a good work, and he trusted that day's proceedings would prove it. At various cattle shows and dinners that took place last autumn various

gentlemen of the county expressed their opinion upon their proceedings, some of these opinions being friendly and some adverse to them. He would not refer to any of these, but he felt bound to refer to some remarks made by the honourable member for Portsmouth, Sir James Elphinstone, who, he thought, had not shown the best taste in speaking in the way he did of the committee who represented him as a commissioner, and who were met in friendly intercourse with tenantry of the county to settle this question on his behalf. In his evidence before the Committee of the House of Commons, Sir James Elphinstone stated that the Conference Committee of Aberdeen proceeded to take up statistics, and had appointed the Sheriff-Substitute and the Superintendent of Police as part of the machinery, as to which he doubted very much whether it was constitutional for a judicial officer to investigate claims which might come before him in another capacity. When he (Mr. Gordon) wrote to Sir James Elphinstone about this, the latter found fault with the newspaper reporters for reporting it, and stated that if he (Mr. Gordon) wanted it stated right, he might come up to London himself and do it. It was an offence of no small character for him to go and give evidence unasked of this kind, and when asked to correct what was not the fact to tell him to come up and do it himself. Did Sir James Elphinstone think he had no better way of spending his time and his money than journeying up to London to correct his mis-statements (Order). It was with the greatest difficulty that he could speak calmly of such conduct.

Sir ARCHIBALD GRANT rose to order, and asked that Mr. Gordon would confine himself to the question.

Mr. FRANCIS EDMOND thought the fewer personalities that were indulged in the better would it be for the progress of the business for which they were assembled.

The CHAIRMAN, though he believed Mr. Gordon did not intend to be personal, hoped he would pass to the discussion of the question.

Sir ARCHIBALD GRANT thought it an unhappy moment for the county when they took up such a subject as county business.

Mr. FARQUHARSON called attention to the fact that Mr. Gordon had possession of the house.

Mr. GORDON said they had had some war amongst the Commissioners of Supply. That was no proof that they had not been engaged in a good work. It had been the never-failing accompaniment of being engaged in a good work. Mr. Gordon then proceeded to examine the reasons of dissent to the resolutions come to by the committee stated by the dissentients. They stated that, while concurring generally in the narrative of the proceedings of the conference and committees, they could not assent to certain of the resolutions contained in the report for the following reasons: "First, The returns by the tenant-farmer as to the amount of damage to their crops 'by game and other wild animals' being practically without vouchers, and no opportunity having been given of testing their accuracy, they afford no sufficient grounds on which to base any suggestion or recommendation." He hoped the Commissioners would not endorse that sentiment. If the returns sent in were practically without vouchers, he asked, what was the cause? It was certainly no fault of the county or the sheriff, or Mr. Fraser, who tabulated the returns. It was simply and solely the Commissioners of Supply who were to blame. If the Commissioners of Supply had themselves answered the papers that were sent to them, and made it clear to their tenants that they would be glad if they did so too, there was no doubt they might have had vouchers to lay before the world. The second reason for their dissent they stated to be, that "the estimates of the damage done by 'game,' properly so called, being mixed up in the returns with damage by 'other wild animals,' it is impossible to separate the one from the other." He thought that was no reason for doing nothing: he thought it was the best reason for doing that which the committee asked them to do. The best way to find out what damage was attributable to the hares and rabbits was to give the farmers power to destroy the hares and rabbits. The third reason of dissent was, that "the returns afford no information as to the principle on which the amount of damage had been estimated." He did not pretend to be a statistician, but he found that 2,267 had estimated their annual loss, and the total amount of that estimated annual loss was £19,906 14s.—much under £10 each. If these tenants were large tenants, it was certainly an answer to the

statements they had often heard made that these returns were exaggerated; if they were crofters and poor people, it was a serious thing for the landlords, and they should consider well before they refused them the moderate relief which they asked. It had been said that the damage was very trifling—it was only 1 per cent. upon the whole income of the county. What a false way that was of calculating! If a man having dealings with one hundred men wronged one of them to the extent of £100, was he to spread it over the hundred and say he had only injured them £1 each? As it was true that the strength of a chain was just the strength of the weakest link in it, the proper way to judge of the justness of a custom was to judge it by the worst cases which came under it. That being the case, they might be thankful that the damage was assessed so low and that they were let off so cheap. If they did right they would be freed from all responsibility as to the consequences, but if they did wrong they would be responsible for the consequences of their proceedings. (A Voice: "Question.") The last reason of dissent was stated to be that "the whole circumstances of the Game-laws being at present under consideration by a committee of the House of Commons, any action by the county is inexpedient until the result of that inquiry shall be made known." Parliament could no more do the work which the committee had been invited to do than the committee could do the work of Parliament. Their endeavour had been to remove all just cause of grievance and introduce a better state of feeling than existed before. The action of Parliament was compulsory, and compulsory action could never introduce a better state of feeling; on the contrary, it would make the state of feeling worse. Another reason why he objected to the action of Parliament was the immoral platform on which they would place themselves by agreeing to the fourth reason stated. It had been confessed by almost all that there was a grievance. Why, then, not redress it? Why wait until Parliament did it? They must notice that the dissentients did not object to the action proposed by the majority of the committee and propose some other action. They said that any action was inexpedient. Why, then, were they appointed as a committee? That Parliament was going to consider the question was as well known on the 1st of May, 1871, as it was now, and if they were to do nothing, why had they been asked to do anything? Why did the dissentients act upon the committee if that was the reason nothing should be done. He did not want to be uncharitable, but the only explanation that he could understand was this, that when they appointed the committee they thought they could do nothing, and they wanted to get the credit of desiring to do something without doing anything, and that they had now found the committee to be much cleverer than they imagined it would be. He had been told that this proposal of holding a conference with the tenant-farmers was a very amiable one, but not a very shrewd or strong-minded one. He could only say that if want of confidence in the wisdom and sense of propriety of the gentlemen of the committee be shrewdness, it was a shrewdness he did not desire. He called upon them to remember the times in which we live, when so-called Liberal opinions that were not always liberal were widely extending, when power was passing into the hands of the people, and changes were taking place which threatened to culminate in a despotism such as the world had not seen before. What were they doing to meet this? Nothing at all, but their apathy and indifference were helping it on. Reformation delayed was revolution begun. Here was a grievance by their own acknowledgment. Every proposal to amend it had failed to succeed. The tenants did not want liberty to go to law and get damages from them. They simply wanted leave peacefully and quietly to carry on their business. If they granted this to their tenants, they would lose nothing but gain much. He asked them to act in a manly spirit, and not to go to Parliament to do that for them which they could do for themselves. He thought the other classes of the community had good reason to complain of them taking up the time and money of the country with settling these game matters. Let them be men with some heart. They were dealing with men who were connected with them by the closest ties, with men who had the same feelings as they had, and who had been dealt with in a way that they would not like to be dealt with. The tide of fortune might turn and place the landlords in the position of the tenants and the tenants in the position of the landlords. Let them consider also their children. They, the landlords of the present

day, had succeeded to an inheritance of peace and good-will. Do not let them hand down to their children a heritage of ill-will. If they agreed to do what the committee proposed they would do a gracious thing. They could not do it at a better time than the present, seeing the difficulty that surrounded the tenantry owing to the bad harvest. He had felt proud when Mr. Gladstone had said in that city that the county of Aberdeen had done what Government had been unable to do—get rid of the cattle plague. That was done in the first instance by the tenantry—(A Voice: "No, no")—the landlords only playing a second part. It would be a noble thing in the county to settle this question as they settled that. Let them set an example to the country in this respect also. If any good was to come from it they must do it heartily. Mr. Gordon concluded by moving the motion that they should adopt the resolutions agreed to by the committee.

Lord HUNTLY rose with some diffidence to second Mr. Gordon's motion, on account of his being one of the youngest Commissioners of Supply. The noble chairman seemed to think that the matter should not have been introduced when it was, eighteen months ago; and that the circumstances accounted for the absence of certain names from the committee. It was of no use at this stage to find fault with the origination of the proceedings. They had now a report before them, and had at present only to deal with it. He could only say for himself that he was not nominated by Mr. Gordon, but, along with another gentleman, was added to the committee at his own request. Others noblemen and gentlemen could have been on the committee in the same way, he was sure, if they had desired. The returns tabulated showed the breadth of the feeling on this subject. Throughout the county about four-fifths of the tenant-farmers state that their crops are damaged by game. He believed every one of the returns and the estimates of the damage was signed by the tenant; and these signatures were all carefully verified with the valuation of the county by Mr. Fraser, the compiler, before the figures were tabulated. That was sufficient proof, to his mind, of the genuineness of the returns. He regretted the disparaging view Sir James Elphinstone took of this conference, which, despite what had been said to the contrary, he believed was a friendly conference. It was not necessary to lay much stress on how the damages mentioned in the returns were estimated. It was very natural that when a tenant saw his crops being destroyed by game, he should lay on the estimate of the damages rather thick—but the main point accomplished by those returns was, that on the broad general principle there was damage sustained; and that fact had not been questioned by those who quibbled about the amount set down anent this loss.

Sir ARCHD. GRANT (excitedly)—Just one word. Can you have game without damage?

Lord HUNTLY: I believe you cannot have many hares and rabbits without damage to crops, and it is for this reason that we want to give the farmers the right with us to kill these animals. Supposing a landlord were to fence his rabbits into his covers, he believed in a few years these animals would be found so destructive even to the young plantations that the landlord would be glad to get the assistance of the tenant to exterminate them. The tenants, or the great bulk of them, have said that permission to kill hares and rabbits would satisfy them, and he thought this concession should be made. It was a favourite sport among the landlords generally to have a shot at a hare, but that amusement would not be materially impaired by the step proposed. He was confident the tenants would not attempt to kill the hares to any extent, except when they were in very large numbers. The right to kill the ground game would make the farmers more careful of the winged game. Aberdeenshire was blessed with as highly educated, intelligent, hard-working tenant-farmers as were to be found in Great Britain. They have to contend with a poor soil, and a horrible climate, and what they have done, notwithstanding these drawbacks, ought to make the landlords feel for them. If the landlords of Aberdeenshire conceded to the tenants what the committee's report proposed, they would be doing a good action, which they should never have cause to regret.

Sir JAMES ELPHINSTONE, M.P., obtained leave to make an explanation in reference to the attacks made on him by previous speakers. He said he had been a Commissioner of Supply in Aberdeenshire since 1826, and he never saw the county of Aberdeen in such a fix as at present. Had he been

present at the meeting at which the investigation was moved for, he should have thrown his whole weight in against it. The mover in the matter communicated with the conveners of other Scotch counties, but they declined to join in any such unauthorised investigation. Referring to what Mr. Gordon said about his attack on the Sheriff-Substitute in his Game-law evidence, Sir James said he begged to assure the worthy Sheriff (Comrie Thompson) that he had no intention of attaching any blame to him, nor hurting his feelings; that the talents and good conduct of the Sheriff eminently fitted him for occupying the high position he held in the county, was indisputable; but he thought a little more experience would have shown both the Sheriff and Major Ross, who holds an official position in the county, that it might have been better not to have taken the part they did in this matter. In reply to Mr. Gordon's charge regarding his correspondence with him, the hon. baronet said Mr. Gordon wished him to give a distinct contradiction to evidence he carefully considered, and thus he declined to do.

Sheriff COMRIE THOMPSON expressed himself as rather surprised that Sir James Elphinstone allowed it to be put on the records of the House of Commons' Committee as his opinion that in discharging the duties of chairman of this Conference, he was acting unconstitutionally. But happily for him, Sir James did not make a general, but a special statement, not a mere opinion but a fact, which was that he (the Sheriff) investigated claims which would come before him in another capacity. This was Sir James's specific statement, and he begged to say, in the most distinct terms, that this was incorrect in point of fact. He investigated no claim in connection with the Conference, and had not an opportunity of doing so. Sir James was therefore entirely mistaken in point of fact.

Sir JAMES ELPHINSTONE said he adhered to his evidence, including the reference to Sheriff Thompson, and he did so because of one of the resolutions of the committee of the Conference on the 2nd of August last, which accorded a special vote of thanks to the Sheriff for the admirable manner in which, with the assistance of Mr. Fraser, he tabulated the returns. He could not draw a strong distinction between these remarks and the terms of his statement.

Lord HUNTLY: How could Sir James have based his statement on that resolution, which was not drawn up for some time after the hon. Baronet had given the evidence in question?

Sir JAMES ELPHINSTONE: I quoted the terms of that resolution in proof of my statement. Sir James, proceeding, denied that the tenants of Aberdeenshire, as a body, go in with this movement. It was simply the cry of a small noisy clique. It was an agitation got up for a particular purpose. He was sorry some kind-hearted friends of his—among others, Mr. Gordon, of Parkhill—fell into the trap. When it was resolved to keep the returns private, it deprived them of any value they might have otherwise had. It was the general opinion in the House of Commons that the game grievance before the Select Committee had most wretchedly broken down. A great game preserver, a friend of his, in the lobby of the House of Commons said the other night, "Well, after all, those Aberdeenshire men are excellent fellows. They have practically settled the game question for the next generation." He had no desire to preserve rabbits. On the contrary, he would give any one £500 to-day who would take the rabbits off his estate, and give him a guarantee he would never see a rabbit again on it.

Mr. GORDON, of Parkhill: Give it to your tenants.

Mr. LESLIE (Warthill) said he could have wished the committee had been content with placing before the county a mere narrative of their proceedings. This would have contributed very much to the result which Mr. Gordon had in view. Every gentleman would have put his own construction upon it, would have taken the statistical tables for what they were worth, and they would have been spared the discussion of a question on which great variety of opinion existed. The report would have enabled gentlemen to adopt whatever course they thought fit on their own properties. But coupled as it was with resolutions and suggestions and recommendations which, in his opinion, had no foundation in any evidence taken or anything done by the committee, they were compelled to take notice of it. He thought that the gentlemen who in May, 1871, acquiesced in the nomination of the committee, had a right to expect that the ordinary recognized rules of public

business should be observed—that the inquiry should be free and open, and every attempt made to obtain reliable information upon a question upon which people thought so differently, and which affected the material interests of the county. Whether this expectation had been realized by the narrative of the report before them was not for him to determine. It was to him very evident that the twenty-one gentlemen who represented the farmers were selected and not elected. A vast majority of these gentlemen held what he might be excused for calling extreme opinions. It behoved them, therefore, to be very cautious in any course which they might be called to acquiesce in. Mr. Gordon had complained that the returns had not been much more numerous than they were. It was in consequence of the secrecy adopted in connection with them that they were not much fuller. He had often heard this course justified, because, if they had not promised to keep the schedules secret, they would not have had the returns. That was easily answered by asking, now they had got them, what was the use of them? He moved the amendment he had read at the outset of the discussion.

Colonel FRASER (Castle Fraser) seconded the amendment. The course that was proposed to be pursued in the amendment was the wisest and most advantageous for the county. He was sure, from the conflicting opinions he had heard expressed that day, that that course would be productive of good, and tend to avoid evil.

Sir ARCHIBALD GRANT said he had taken no notice of this committee. He had given in no returns, for to have sent in returns would have been to send them in to a secret sitting of the inquisition. The committee had never represented Aberdeenshire, so far as the lairds were concerned. He entirely dissented from its proceedings, and had he been present when it was proposed to form the committee he should have objected strongly to it.

Colonel INNES (Learney) said he shared Lord Kintore's opinion that the committee had undertaken a rather big job. The best means of investigating this matter would have been a Royal Commission. The committee could not get the information such a Commission would have obtained, so they had to take the answers sent to their queries for what they were worth. Notwithstanding all the remarks that had been made upon the returns, he affirmed that it was the only possible means of getting the evidence at all. They took the precaution that the returns should be authenticated by the signatures of the farmers who sent them in. He did not go along with Mr. Gordon in thinking that whatever result the meeting came to it would have a great and important effect on the future. He did not think it very material whether they arrived at one conclusion or the other. But he felt confident of this, that whatever conclusion they came to, the consideration they had given to the question would have the most important results.

Dr. ROBERTSON (Hopewell) said that instead of being productive of the good that was expected of it the conference would be productive of much mischief. It had not tended to a kindlier feeling between the proprietor and his tenants, but in his opinion it had had the reverse of this result. He objected strongly to the report, and he took that opportunity of strongly protesting against its going forth to the world sanctioned by the unanimous voice of the Commissioners of supply of Aberdeenshire.

Colonel RAMSAY (Barra) said that Mr. Gordon had been long a non-resident proprietor, and had gathered his information about the matter with which he had been dealing from newspapers rather than from personal intercourse with his tenantry. He (Colonel Ramsay) agreed with the previous speaker in protesting against the action of the committee. He hoped the would-be philanthropists who had been conferring with the tenant-farmers saw their way to pay the expenses they had incurred, as there was no county fund available for the purpose.

Mr. FORDYCE, M.P., intended to support Mr. Gordon's motion, on the ground that it was justified by the evidence which they had before them, and was based on the spirit of compromise, which was very much needed in questions arising between landlord and tenant. He did not expect the present House of Commons would provide a practical remedy, and he supposed nobody did believe it. He would not believe it until he could see it, that the landlords of Aberdeenshire would treat the tenantry otherwise than in the manner proposed by Mr. Gordon, which he had great pleasure in supporting.

Mr. HUTCHEON, chief magistrate of Turriff, defended the mode in which the farmers' committee was elected.

Captain SHEPHERD (Kirkville), proposed a middle course, to the effect that the report be received and laid upon the table; that the committee be now dissolved; that it be recommended to landlords, while reserving their own right to shoot, to give permission to the farmers to kill hares and rabbits on their respective farms; and that it is inexpedient to proceed further in this county till the result of the Parliamentary inquiry is made known.

This motion was not seconded.

The meeting then divided, with the following result:

For the motion—Colonel Innes; Mr. Edmond, of Kingswells; Mr. Gordon, of Parkhill; Mr. Ferguson, of Kinnmundy; Mr. Fordyce, M.P.; Sir John F. Clark, of Tillypronie; Captain Tayler, of Inchgarth; Lord Provost Leslie; Mr. Yeats, of Aquharney; Mr. Hutcheon, of Turriff; Mr. P. Cooper, Aberdeen; the Marquis of Huntly; Colonel Farquharson, of Invercauld; Mr. Rust, of Auchincleek; Mr. Fordyce, of Culsh; Mr. Jameson, of Rosebank; Bailie Urquhart—17.

For the amendment—Mr. Russell, of Aden; Dr. Robertson, of Hopewell; Mr. Cumine, of Rathva; Mr. Irvine, of Drum; Colonel Paton; Mr. Forbes Gordon, of Roynie; Mr. Gordon

Young, of Eilon; Colonel Ramsay, of Barra; Mr. Gordon, of Esslemont; Colonel Ross, King of Tertowie; Mr. Dalrymple, of Kinnellar; Colonel Ferguson, of Pitfour; Mr. Gordon, of Cluny; Mr. Davidson, of Inchmarle; Provost Alexander, Peterhead; Mr. Arbuthnot, of Invernettie; Mr. Alexander, yr., of Springhill; Mr. Andrew Boyd, of Peterhead; Mr. Leslie, of Warthill; Mr. Forbes Mitchell, of Thainish; Sir Archibald Grant, Sir J. D. Elphinstone, Mr. Gordon, of Manar; Mr. Grant, of Druminnon; Major Turner, Mr. Farquharson, of Houghton; Colonel Fraser, of Castle Fraser; Mr. Cruickshanks, Comisty; Sir W. Forbes, of Craigievar; Colonel Forbes Leslie, of Rothie; Sir Alexander Anderson; Colonel Leith Hay, of Rannes; Mr. Gordon, of Ward House; Mr. John Reid, advocate (for Sir Alex. Bannerman); Provost Annand, Inverurie; Mr. McKenzie, of Kintail; Mr. Lyall Grant, of Kinesford; Captain Charles Leith Hay, Lord Lindsay; Mr. Walker, of Richmond; Mr. Lumsden, of Belhelvie; Mr. Gordon, of Newton—43.

The following declined to vote: Mr. Humphrey, Sheriff Thomson, Colonel Forbes of Easter Kinnmundy, the Earl of Kintore, Mr. Davidson of Desswood, Captain Shepherd of Kirkville. A few had left before division. The meeting lasted nearly four hours.

THE LANCASHIRE FARMERS' CLUB.

LORD DERBY'S ADDRESS.

At the opening meeting at Preston, Lord DERBY, the chairman, delivered a lengthy address, in which he said:

Are we not a little hasty in speaking as if a great permanent rise in the cost of English labour has taken or was taking place? It may be so; but we know this—that an exceptional development of trade and manufactures has created an exceptional demand for hands; that such periods of suddenly enhanced prosperity seldom go on long without a check, and that it is by no means proved that when that check occurs (and some people think it is not far off even now) the demand for labour may not subside to very nearly its former level. We cannot generalise safely from the experience of a year or two. It is not four years since many people, sensible people as well as kind-hearted people, were crying out for State help to send out of the country the surplus labour for which we could find no use at home. When I notice the change since 1863, I am compelled to ask what there is to prevent the ebb from succeeding to the flow—what should hinder the pendulum from swinging back again to its old position? I shall not easily believe in this social revolution until I see one of two things—either that the number of yearly emigrants from these islands equals, or approaches, the natural yearly increase of population; or that the working class here use the same means as the French peasantry habitually do, to avoid being burdened with more mouths than they can find food for. The last of these two conditions is so utterly improbable, considering the ideas and feelings of our people, that I may safely put it aside; and as to the first, I am not aware that there has been any perceptible decrease as yet in the rate at which our population grows. Nobody can feel unkindly to those poor fellows who are only doing the best they know to better themselves—but I suspect that in the majority of cases they have miscalculated their strength, and will not do themselves much good. In these parts, our troubles of that kind are fewer, though we may have had our share. For many years past the competition of the towns has raised wages to a higher level here than in the South; the condition of the labourer is better to begin with, and though there may be some temporary difficulty to contend with, I don't think the farmers in Lancashire need fear any permanent scarcity of hands. But, even if that scarcity were to continue, and to increase, that would be no reason for giving in. It has been pointed out by a very competent authority upon such subjects, that of all countries, England supplies to the world the cheapest manufactured goods, and of all countries England pays the highest for the labour that supplies them. It is a question to a great extent of using

mechanical means; we are only beginning, comparatively speaking, to do that in farming, and it is impossible to foretell what economies and what improvements may be possible in that direction. Meanwhile it is undoubtedly desirable to do what we reasonably can to keep our labourers with us. I would never discourage any young fellow from emigrating if his mind was really set upon it, and if he had an idea of what was before him; indeed, I have very often helped men to go; but unless English labourers are a good deal stupider than I take them to be, they will find out that emigration is a lottery; that the emigrants mostly have a rough time to go through, and, perhaps, it may strike them that the people who are crying most loudly to them to take themselves out of the country are not working for their interest—are very little concerned, indeed, whether they live or starve when once across the sea, but are simply trying to get them out of the way that there may be higher wages for those who stop behind. As to migration from one county to another—especially from the south of England to the north—that is a process which will go on of itself, and does not require to be artificially stimulated. The tendency of wages is necessarily towards equality within a limited area. But it is obvious that a movement of that kind cuts two ways—it tends to raise wages in one district, it tends to lower them, or to prevent them rising, in another. Well, what are we to do for them at home? One of the favourite schemes of the day is to turn them into farmers; or rather into fractions of a farmer, by adopting what is called the plan of co-operative association, and giving the soil to be cultivated by the actual workers upon it. Now there can be no tolerable farming without capital; a body of labourers clearly have not got capital of their own, and as they have no available security to offer, I don't see where they are to get it. I am aware that instances have occurred where benevolent landowners have themselves advanced the sum required—but that is charity, and not business. In the first place, it is clear that landowners as a body would not be able to take that course. In the next place, even if they had the money, it would be a very speculative investment; and, besides that, farming with capital of which every shilling is borrowed is not, for the occupier, a safe and satisfactory process. Moreover, there is another consideration which philanthropists are apt to forget. It is very well, and it is very just, to argue that men never work so hard as when they have a direct personal interest in the result. That is excellent doctrine for prosperous times, or where there is a reserve to fall back upon. But farmers have losses as well as gains, bad years as well as good

years, and inasmuch as labourers must live, and as they have nothing laid by, it seems as if whenever crops were exceptionally bad, or prices exceptionally low, the experiments of rural co-operation run great risk of breaking down. Still, I don't say that it should not be tried; or that in some form it may not ultimately answer, only with our present experience I should advise no one to put more money into it than he can afford conveniently to lose. But why should not the question be practically tested? There are plenty of estates in the market, the trading co-operative associations of this country are very numerous, they have a good deal of money made, and their supporters are enthusiastically zealous in the cause. A very little experience is better than a great deal of talk; let them try a few farms, and see whether they can work them to advantage on their principle. If they succeed, nobody will grudge them their success; if they fail, we are only where we were. There is a modified form of co-operation, which consists in paying labourers proportionately to the profits made on the farm, and some plan of that kind has lately been recommended to us by very high Parliamentary authority. I think, however, that it is liable to a good deal of difficulty. In the first place, it is not always easy for the farmer to know exactly what his profits on the year's business are, and still less easy for him to prove it, as he would be bound to do, to the satisfaction of his men. In the next place, it does not seem to be founded on any principle of justice that I can understand that a ploughman or a carter's earnings should depend on the state of the crops or of the markets. No doubt he would be willing enough to receive a bonus in good years, but he would not at all like a corresponding deduction from his earnings in bad years. And yet it is not easy to see how you can have one without the other. A partnership where the gains are divided among all the partners, and the losses fall entirely on one, is a very one-sided concern. Of course if all that is meant is that wages are to be raised, when the employers can afford it, these objections don't apply; but that is quite a different thing from making wages vary according to a fixed rule, with profits. While on this question I would recommend it to your consideration whether it is not both just and politic to distinguish more than is usually done between individual labourers as regards the rate at which they are paid. One man's work is worth half as much again as that of another; it is a discouragement to the really good worker not to have that difference recognised; and, looking at it in another point of view, by valuing each man's labour separately you encourage the spirit of individual energy and ambition, rather than of combination and collective action. The strong and energetic will not feel, under such a system, that, in order to rise themselves, they must drag after them the dead weight of those who have neither strength nor energy. And as they lead the rest, when you satisfy them you go a long way towards satisfying all. Every generation has its favourite ideas—co-operation is the universal medicine of the present day. Five-and-twenty years ago the theory used to be that if you could only give to every labourer an allotment on which he could grow produce, either for sale or for his own use, you would have made a great step towards improving his condition. I think there was reason and sense in that view, though more stress may have been laid upon it than it would fairly bear. There is no doubt that to hold a bit of land in that way attaches a man to the soil, and that it is, so to speak, a savings bank for his labour. On the other hand, it is argued with force that if the allotment is far off from the house, and if it exceed a very moderate size, the labourer is drawn off from his regular work to attend to it, and, being divided between two employments, neither does as well for himself nor for his employer as he otherwise would. It is a fair matter for discussion, and I hope we may have some light thrown upon it. That every cottage should be in good repair, and should have a garden attached to it, are rules which I need not stop to enforce upon you. Another subject much talked of in the south is whether labourers' cottages should be held direct from the landlord, or leased by him to the farmer who holds the adjoining land. I hold for my own part, as a general rule, subject to exception in the case of large and distant farms, the landowner had better not allow the control of them to pass out of his own hands. On the other hand, he may reasonably make it a condition that those whom he houses at a very unremunerative rent should be actually and habitually workers on his

estate. He is not bound to provide cheap cottages for the mechanics of the neighbouring districts, unless he profits by their labour. It is enough if he provides them, or the associations which act for them, with facilities for building on their own account. Those whom, according to our customs, he is bound to house must be those who work for him or his tenantry; and if they cease to fulfil that condition, they cannot complain of being replaced by others who will. Piece-work, or payment by results, is a valuable stimulus to exertion where it can be introduced. It is open to one objection, that the quality of the work done is apt to suffer, in cases where faulty work cannot be detected by inspection. Still the principle is sound, because it gives the worker an interest in his occupation, and creates rivalry. Where men are paid by time only, it is an unpopular thing among them for one to do more than the rest. Exceptional energy is discouraged, and men reasonably ask, "Why should I work harder than my neighbour, since the profits will go into my employer's pocket and not into mine?" I don't hesitate to say that in many, perhaps in most, parts of the country, game preserving has been carried a great deal too far. If a man wants to carry it on to the extent that some landowners do, let him take what land he requires into his own hands, and bear the expense and the loss himself. But when we come to speak of legislation, I think that if I were a farmer I would think twice before I asked for the repeal of the Game-laws. First, because a change of that kind in the law would naturally lead to a general revaluation of farms; and farms in England are habitually let at a lower rate than they would fetch if competed for in open market. But, secondly, and perhaps this is the more important reason, because in a country like this you never can have, you never will have, a stringent and effective law of trespass. The public would neither consent to its being passed, nor allow it to be enforced if it were passed. And in the case of a Lancashire farmer, who lives in a populous district with many large towns near him, and lots of idle lads about, I suspect he would find that the liability to have his hedges broken and his fields trampled by every set of young fellows who took it in their heads to see if they could find a partridge or a hare on his ground, would be a good deal worse than any occasional damage to crops to which he is now exposed. Against mischief of that kind he would have no practical remedy, or none which would not cost him more in law than he could possibly get back as damages. That is a part of the question that has not been much noticed, and I think it deserves attention. Various plans have been put forward for giving the game-ground game at least—to the tenant instead of the landlord. But all of them that I have seen are open to this objection, that if the landlord and tenant are to contract freely for the letting of farms, it is impossible for the law to prevent the landlord from reserving the right of shooting; and if, as some people contend, such a reservation is to be made illegal, then you are landed in this absurdity, that the tenant who may shoot on his own account may also let the shooting to any human being whom he pleases to select, with the single exception of his own landlord. On the whole I think the matter will be found a very awkward one to deal with by law, and what I should wish to see—what I hope to see—is, that by moderation on both sides the necessity for any large legislative measure may be averted. I am convinced that if landowners and their friends would be content with the kind of sport which satisfied their grandfathers, or even their fathers, up to thirty or forty years ago, there would be very little controversy about it. There are two other matters which we may have to discuss, the question of leases, and the question of compensation to tenants for unexhausted improvements. Now, as to leases, I will tell you exactly what I think. I hold that any improving tenant who wants a lease of 14 or 21 years may fairly be allowed to have one; and I am not in favour of clogging leases with more than a few simple conditions. But then the bargain must not be all on one side. If the landowner consents to put his farm out of his own control for a term of years, he must be free morally, as he is free legally, to renew the contract or not at the end of the term, as he thinks best. Probably he will think it best, but he has a right to his option. I lay stress on that, because I have seen in the papers cases where it was made a matter of great complaint that the holder of such a lease was not allowed to renew it, the proprietor of the soil having made other arrangements. I confess I cannot

see the justice of those complaints. Where leases are resorted to, the relation between owner and occupier becomes one of contract; and neither can fairly claim as a matter of right anything beyond what is in the contract. As to claims for unexhausted improvements, in some cases—as, for instance, where artificial manures have been used—I apprehend that these claims are regulated by a local custom which is well understood. Where a tenant has a lease, they generally will, and to my mind they always should, be matters of arrangement between him and the landlord. It is not the landowner's interest to have his farm run out during the last four years of the lease, and it is not the tenant's interest to run it out, if he can either secure the value of what he has put in or a renewal of his tenancy. They are both gainers by coming to an agreement, and I do not see that either fresh legislation or the intervention of any third party is necessary. In the case of a yearly tenant the claim is certainly stronger, and if in cases of that kind grievances arise, as I have read in the newspapers, I

think the question of legal protection is a very fair one to raise. But I speak with no great confidence, for in my experience no dispute has ever arisen on these points. In Ireland it used to be pleaded with truth that the tenant did most of the work of permanent improvement on the estate—buildings included—and that, therefore, he had a right to the value of them on leaving. But in this country, at least in Lancashire, all works of that kind are landlords' works, and the Irish claim does not arise. The obvious remedy for grievances or misunderstandings on this question of improvements is, that before they are undertaken by the tenant in each instance, there should be a definite agreement whether they are to be paid for or not, and how their value is to be estimated. Speaking as a landowner, I am not in the least afraid of *bona fide* claims on the ground of improvement. Vague and unsound notions get swept away, and we come to see clearly what others have a right to expect from us, and what we are entitled to claim in return.

LUDLOW AGRICULTURAL SOCIETY.

The entries in the cattle classes were fairly numerous, but sheep were less largely represented, and both would have appeared in greater force but for the prevalence of foot-and-mouth disease in the district. There was a falling off too in the horses. The most valuable prize in the whole list—the sweepstakes for the best stock bull of any breed—only had two entries, the one a Hereford shown by Mr. H. N. Edwards, of Broadward, and a Shorthorn exhibited by Mr. John Valentine. The result was that, it being a primary condition that at least five bulls should be shown, the 20 sovs. which in that case would be added to the sweepstakes were not given. Mr. Edwards, as showing the best bull in the class, received, therefore, only the stakes. In the bull, cow, and offspring class, there were a couple of good lots shown respectively by Mr. Philip Turner and Mr. Richard Tanner. The class for the best yearling bull met with more competition; the honours were carried off by Arkwright, already a prize-taker at the Bath and West of England and Gloucester; while Mr. Fenn's Royal calf was again second. In the classes for steers—in pairs and in fours yearling steers, heifers, breeding cows and fat cows, there was a goodly number of entries, all more or less distinguished by merit. The pigs were good. The horse classes were chiefly nag mares with foal at foot and nag geldings and mares. For the rest the horse department comprised half-a-dozen cart mares, and something under a dozen cart geldings and fillies.

PRIZE LIST.

JUDGES.—CATTLE, SHEEP, AND PIGS: Mr. James, Map-powder, Dorset; Mr. Bennion, Crasswell, Stafford; and Mr. J. Taylor, of Stansbach. HORSES: Mr. N. G. Price, Llancillo Hall, Pandy.

CATTLE.

A sweepstakes of two sovs. each, with twenty sovs. added, for the best stock bull, of any breed; open to all England.—Prize, H. N. Edwards, Broadward.

Bull, cow, and offspring, the offspring to be under twelve months old.—Prize, £5, P. Turner, The Leen.

Yearling bull.—First prize, £5, H. N. Edwards; second, £2 10s., T. Fenn, Downton; third, R. Tanner, Frodesley.

Four two-year-old steers.—First prize, £5, J. E. Farmer; second, £2 10s., T. Farmer.

Pair of two-year-old steers.—First prize, £5, T. Rogers, Coxall; second, £2 10s., R. Hill, Orleton.

Four two-year-old heifers.—First prize, £5, T. Rogers; second, £2 10s. W. Tudge, Adforton.

Pair of two-year-old heifers.—Prize, £5, T. Fenn.

Yearling steers.—Prize, £5, T. Farmer.

Yearling heifers.—First prize, £5, P. Turner; second, £2 10s., T. Rogers.

Breeding cows or heifers, with calves, or to be certified to calve before 1st of January, 1873.—First prize, £5, J. Rawlings, Stoke; second, £2 10s., W. Tudge.

Fat cow or fat heifer.—First prize, £5, T. Rogers; second, £2 10s., P. Turner.

SHEEP.

Yearling ram (open to all England).—First and second prizes, £5 and £2 10s., R. Tanner.

Ram more than two years old, bred by, or that has been used for the previous year, by a member of this society.—First prize, £5, R. Tanner; second, £2 10s., J. Rawlings.

Ram lamb.—Prize, £5, R. Tanner.

Pen of ten breeding ewes, two years old and upwards, bred by the exhibitor, and to have produced and reared a lamb up to the 2nd May, 1872.—Prize, £5, R. Tanner.

Pen of ten yearling ewes.—First prize, £5, Mrs. J. Hand, Wigley; second, £2 10s., T. Fenn.

Pen of six fat yearling wethers.—Prize, £5, Mrs. J. Hand.

Pen of ten wether lambs.—First prize, £5, Mrs. J. Hand; second, £2 10s., F. Bach.

Pen of ten ewe lambs.—First prize, £5, T. Fenn; second, £2 10s., Mrs. J. Hand.

PIGS.

Boar under two years old.—First and second prize, £2 and £1, J. Wheeler and Sons.

Breeding sow.—First and second prizes, £2 and £1, J. Wheeler and Sons.

Cottager's pig, which shall have been the property and in the possession of the exhibitor at least three months.—First prize, £3, J. Price; second, £2, J. Smout; third, £1, Mary Worthen.

HORSES.

Nag mare and foal at foot, or the same breed, that has been the property and in the possession of the exhibitor at least six months.—First and second prizes, £5 and £2 10s., T. Griffiths.

Cart mare for agricultural purposes, and foal at foot, of the same breed, that has been the property and in the possession of the exhibitor at least six months.—First prize, £5, T. Farmer; second, £2 10s., E. Bach.

Nag gelding or mare, for a hunter and the road, under five years old, that has been the property and in the possession of the exhibitor at least twelve months.—First prize, £5, T. Rogers; second, £2 10s., J. Pound.

Two-year-old cart gelding or filly, for agricultural purposes, to be bred by the exhibitor, or to have been in his possession six months.—First prize, £5, S. Amies; second, £2 10s., Mrs. M. Galliers.

EXTRA STOCK.

30s., R. S. Edwards (30 ewes); 20s., T. Griffiths (two mares with foals); 10s., Wheeler and Son (pig and pen of pigs); 10s., R. Shirley (bull); 10s., R. Tanner (five ram lambs); 10s., H. G. Reynolds (cow in calf); 10s., J. Rawlings (cart filly).

IMPLEMENTS.

Best assortment of agricultural implements, to be shown by subscribers.—Prize £5, J. S. Vince, Ludlow.

MAIDSTONE FARMERS' CLUB.

THE HARVESTING AND CLEANING OF SEED.

At a meeting held at the Star Hotel, Maidstone, Mr. T. Bridgland, jun., in the chair, the attendance was rather small. It had been announced that Professor BUCKMAN would deliver a lecture on "The results of seven years' practical farming by a man of science," but the chairman explained that the Professor, having been taken ill, was unable to attend. However, he had sent a paper on "The harvesting and cleaning of seed," and the secretary would read it. Mr. H. Argles read as follows:

I propose devoting this paper to an examination of the more practical points concerning the preparation of seed for the market, in which it is purposed to give an account of the varied results of the analyses of seeds of almost every class of crop. It must be understood at the outset that these remarks will have reference to the preparation of crop seeds for the seed market, and not of corn and grain as food, two matters to be kept distinct because the growths for the one purpose will offer very different considerations from those of the other. Crop seeds may, for our present purpose, be very conveniently divided as follows:

TABLE I.—Classification of Crop Seeds.

1. Cereal grasses, corn or grain seeds, wheat, barley, rye oats, &c.

2. Fodder grasses, as rye grasses, timothy grass, &c.

3. Clovers, sometimes termed "artificial grass," &c. Often in mixed state called "seeds."

4. Bulboid rooted crops, turnips, &c.; tap rooted crops, carrots, &c. (with this may be included cabbages).

5. Economic plants, as flax, hemp, &c.

1. CEREAL GRASSES.—These, when destined for seed, should be selected on account of the evenness of the crop, and true-ness to variety, as each variety of corn, of whatever kind, will present great differences as to periods of ripening and quantity and quality of the crop to be derived from it, according to the differences of soil it may have to contend with. Oats are seldom true to sort, for, as I have shown by experiment, these are derivative plants, and are very readily acted upon by different circumstances—the differences of geology in a single field, as one part of clay and another part sand—my result in a crop of corn widely differing in specific gravity, a fact tested by the weight per bushel, and in the one there may be elements of declension to wild conditions, and in the other a further departure from the wild original. Hence, therefore, to mix these two samples in crop seed tends much to that unevenness which one sometimes observes, both as regards the time of ripening and the resultant grain, and which is sure to be prejudicial to the quantity as well as quality of the crop, as, if the one waits until the whole be ripe, the early ripened examples shed their best and heaviest grain. If cut before the later ones are ripened there will be a mixture of much light grain, and hence a deficiency of weight per bushel. Of course, in harvesting grain for seed, care must be taken that it shall not heat in the rick, as "mow burnt" grain is uneven in its powers of germination according to the amount of heat to which it has been subjected; and though it is astonishing how much grain may sometimes be heated and yet germinate, nevertheless it will mostly be found that under the most favourable conditions samples of this kind will result in a sickly crop, and great deficiency both in quantity and quality, and its specific gravity will be much lessened. In grain seed we have seldom much to complain of as regards weed admixture, as seeds of weeds are mostly smaller and lighter than those of any kind of grain, and consequently separated in winnowing. However, we occasionally meet with "dirty" grain seed. A sample of wheat submitted to my examination not long since, had as many as a thousand seeds in a bushel of the *Ranunculus arvensis* (corn crowfoot), a weed of a most pernicious description, very common to poor clay lands, and those in the midland counties of England—on the Lias clays especially—called "hunger weed." Another of a similar form is not unfrequent in grain seed, namely *Cynoglossum officinale*, a weed which affects limestone, but as it is one of biennial habit its presence argues such very

careless and dirty farming that one would be fully justified in refusing to purchase seed at all from such a source.

2. FODDER GRASSES.—The seeds of these are so small and weedy, and artificial pasture is so little attended to, that seeds of these are indeed the commonest source of weed reproduction; and from want of attention to pure seeds, this rotation usually provides enough weeding for employment in every succeeding crop. The following table will, at the outset of this question, put the matter in a clearer light, and more especially when the results be contrasted with those derived from an examination of good seed of this class:

TABLE II.—Result of Botanical Analyses of different Grass Seeds, calculated for pints by measure.

Seed samples.	No. of weed seeds in a pint.	Remarks on principal contents, &c.
Canary grass	520	
Perennial rye grass	800	½th lop, <i>Holcus lanatus</i> , &c.
Do.	3200	Lop (<i>Bromus mollis</i>), &c.
Do. (Pacey's)	1200	
Italian rye grass	3200	Field madder, sandworts, &c.
Do. imported (A.)	7040	{ Lop, soft grass, and creep- ing ranunculus.
Do. do. (B.)	1600	Lop, soft grass, &c.
Do. with hop trefoil and Broad clover mixed (Seeds)	4880	{ Lop, herardin, ranunculus, plantain, &c.
Yellow oak-like grass (<i>Avena fla- vescens</i>)	560	Mostly a species of rush.
Meadow foxtail (<i>Alo- pecurus pratensis</i>)	1320	Slender foxtail, lop, &c.
Cock-foot (<i>Dactylis glomerata</i>)	9200	{ <i>Holcus lanatus</i> , <i>Arrhenathe- rum</i> , nearly half weeds.
Hard fescue (<i>Festuca dumescula</i>)	4600	Lop, holcus, &c.
Oak-like grass (<i>Arr- henatherum avena- ceum</i>)	800	Mostly lop.
Sheeps fescue (<i>Fes- tuca ovina</i>)	2620	Medick, &c.
Mixed grasses (A.)	3840	Plantain, &c.
Do. do. (B.)	8400	Ranunculus, holcus, &c.

From this table we see how it is that farmers are such careful cultivators of weeds as, on the supposition that all the weeds in a sample might germinate, these of themselves would be sufficient to occupy the soil, and the old adage that "Ill weeds grow apace" is often too well exemplified, the weeds getting on much better than the intended crop. And as in "seeds" they themselves are left to propagate, the following table will well enough illustrate another proverb, alas! equally true, namely

"One year's seedling
Seven years' weeding."

TABLE III.—Result of calculation of the reproductive powers of some of our common weeds.

Seed samples.	In a single plant.	Remarks.
Black mustard	8000	} Common about farms.
Charlock	4000	
Shepherd's purse	4500	
Fool's parsley	6000	} An agrarian weed.
Dens de lion	2040	
Stinking chamomili	40650	} Everywhere too frequent.
Mayweed	45000	
Sow thistle	19000	} About manure heaps, whence it gets to turnip fields.
Groundsell	6500	
Corncockle	2940	} An agrarian, mostly with garden culture.
Common dock	13000	
Red poppy	50000	} In fields, meadows, and by- road sides.

From this table we see the enormous fecundity of our common weeds, so that allowing weeds to seed in any crop furnishes work to get rid of them for many succeeding years. It remains now to account for the circumstance of such bad samples of seeds as those mentioned in Table II. ever getting into the market at all, and if we at present confine our attention to grasses, it will be found as a law that dirty patches usually yield a better profit by being seeded, than clean ones; and also that seeding them is more profitable than using them for fodder purposes. Weed seeds weigh as much, if not more, than grass seeds, and of the weed grasses the most common one, the *Bromus mollis* (soft brome or lop) is much larger and heavier than the seed of the rye grass, with which it is so constant. In as far as yield of fodder is concerned, when weeds are present, the nutritive matter of the crop is diminished, and the bulk of the whole lessened, but it is almost a law that when the leafage is kept under the seeding powers become greater, and hence dirty patches of "seeds" pay better for seeding than for any other purpose, and such samples find a ready market on account of their supposed cheapness; for the growth of good and perfect samples entails additional expense, which must be paid for. If farmers sufficiently consulted their own interest they would most carefully avoid the cheap and dirty seeds of all kinds, for though cheaper now they have ultimately to make up for it, not only in the deficiency of crop, but in the everlasting after-expenses to get rid of those weeds they themselves have planted. The difficulty of getting grass seeds perfectly fine must be admitted by all; still, if farmers make up their minds to get them so, and will pay a little additional first cost, the matter is simple enough, and even if they are not able to analyse seeds with the requisite amount of care, I should contend that the subject of pure seeds is as important as that of pure guano, and consequently that each agricultural society should have an officer attached, whose duty should be that of analysing seeds, and advising upon botanical matters, than which surely nothing can be more important, seeing that agriculture has so much to do with plants, each form of which is subject to such complicated laws, and the result presenting all shades of quality, which requires an educated eye to determine. The following table shows us that tolerably pure seeds are attainable in the market if demanded; it is the result of an examination of five samples:

TABLE IV.—Result of Analyses of Rye Grass Seeds received from "J. F."

Note.—This Table will be found to introduce a new element in the estimation of the qualities of seed samples—namely, that of specific gravity, a subject I hope more fully to illustrate in a future paper.

Seed Samples.	Weight (in grains) of 2 oz., by measure.	Weeds in a pint, by measure.	Remarks.
1. Home-grown Italian rye-grass, one year off, Lombardy seed. Is to 19lbs. per bush.	210	80	A very fine sample—a little injured by insects, or it would have been heavier.
2. Imported Italian rye-grass, cleaned and re-cleaned, 17lbs. per bush.....	201	960	By no means a bad sample, as compared with other foreign seeds.
3. Pacey's perennial rye-grass, 28lbs. per bush.....	360	160	A very fine sample, and tolerably pure.
4. Pacey's perennial rye-grass, 30lbs. per bush.....	384	120	The weeds were Plantago and Ranunculus—a remarkably fine sample.
5. Pacey's perennial rye-grass, 32lbs. per bush.....	403	320	Plantain, Ranunculus, Scabiosa, &c. A fine sample of seed of the grass, but much injured by the presence of weeds.

This table was made up from examination of 2oz. packets of seed, and the weights of small quantities come so near that of the bushel weight, that we must see clearly that estimation of

bulk can be as readily made out from small samples as in any other produce.

3. CLOVERS.—The facts just insisted upon apply with still greater force to seeds of our agricultural Papilionaceae, as these are so much smaller, and both in size and colour so nearly approach many forms of weed seeds, that the uneducated vision is not sufficient to detect the mischief, but that it should be done will be deemed a matter of no small importance, after perusing the table I now append, which is the result of an examination of several packets of clover seeds from different seedsmen.

TABLE V.—Result of Analyses of Cloverseeds.

Seed Samples.	Number of weeds in a pint.	Remarks.
Alsike clover	7600	Grasses, Umbelliferae and Polygonacea.
Cow-grass clover ...	8400 12000	Plantain and Umbelliferae.
Broad clover	1040 7840 8400	Umbelliferae, Polygonacea, Creeping Crowfoot, &c.
White Dutch clover	39440 26560 70400	Plantain and small weeds. Sandworts, Ranunculus, Polygonacea.
		Plantain, Polygonacea, and Caryophyllaceae.

Now, if we take up the inquiry as to the number of weed seeds we may thus sow to an acre of ground, and then reduce them again to the quantity per yard, we shall see at a glance that it will be enough of weeds to cover the ground, and as these weed seeds are paid for, and from their being the plants natural to the soil, will readily grow without any, even the slightest care, but still more so with a prepared soil, it is no matter for wonder that we so often see a patch which should be clover, a mass of plantain and other weed plants of no feeding value occupying the soil, and fattening themselves at the expense of the food which, in the shape of manure, was destined for the growth of the intended crop.

Mr. STONHAM said that Professor Buckman had shown them by careful analysis that seeds of all kinds were subject to have a great many weed seeds mixed with them. Now, he had no doubt that there were peculiar geological formations that were better constituted for the growth of certain kinds of plants than others, and therefore it seemed clear to him that if they wished to get a pure sample of seed, they should go to that very geological formation which in particular suited the growth of the description of seed they required, and which perhaps grew that seed in detriment to anything else which might spring up underneath, and which they did not require. For instance, he had known lots of people go to the table lands for their seed wheat, probably not because they got the finest sample from there, but rather because they got the cleanest sample. He thought it was a very good practice—and a practice that he had pursued himself—not to trust anybody for seed. He had never purchased any seed or seed-corn of any description and used it without re-cleaning it, and he was quite sure he was amply repaid for doing so. They might go into a market and see what appeared to be a very pure sample of corn; but if they looked at it through a microscope, the rubbish they would then see in it would surprise them. And, as a rule, people would not pay for clean seed, and therefore it was that they got these adulterations, which were very unsatisfactory. It was very unsatisfactory to a farmer if he were always cleaning his farm, and would not allow a weed to be seen, and then when he had sown something up should come a lot of weeds. Besides, if they sowed clean and good seed, they did not require such a large quantity. For instance, he would take cloverseed. His practice was to buy as good a sample as he could find, and then clean it. Although he thus got a less quantity of seed for his money, yet he did not require to drill in so much, and in the end he got on better than by buying a doubtful seed. Before sitting down he wished to point out a new mangold wurtzel which Sutton's people had sent out this year. It was supposed to be harder, its specific gravity heavier, and its nutritive value greater than anything in the line which had hitherto been put into the

market. It had yellow flesh, and was of the globe shape. He (Mr. Stonham) was delighted with it, and if he were a bullock he would eat no other than that.

Mr. KEMP wished to remind them of a recent Act of Parliament for punishing people for introducing spurious articles into the seed market, and he thought that if they would take advantage of the hints that had just been thrown out to them, and act upon them, and also give effect to this new Act of Parliament by prosecuting offenders, a better state of things would be brought about.

Mr. J. BARLING said that the new Act of Parliament would doubtless protect anyone who wished to put the law in action against deliberate adulteration; but if he understood Professor Buckman's paper rightly, there was no charge of adulteration in it. The description of seed of which the professor spoke, although not pure, was not adulterated, and his paper would probably have been of more value if he had added to his table the soil or geological feature of the country, or ground, or farm from which the various samples of which he spoke were taken, because there was no doubt, as Mr. Stonham had remarked, that some soils would develop some plants better than others, and would also develop some weeds better than others. In allusion to the dishonesty of sellers, he did feel that all the fault did not lie with the sellers, because if a buyer would deliberately beat down a person who was honestly asking a fair price for a fair article, he was a participator in the evil of impure seed. He was quite sure where there was adulteration and low price that the buyer ought to have a little of the blame. No doubt that in the adulteration of seeds as well as everything else, the degradation of quality was brought about to meet the buyer's price. They well knew there were dealers in seed of whom they would buy with much greater confidence than others; but they also knew that these sellers were not the cheaper sellers of seed, although they were really the cheaper as they found in the results. He hoped that some day Professor Buckman would favour the Club with the details of the weeds peculiar to the geological features of the county. The professor would have a wide field for his labour, for the geological formation of the county was most varied. He believed that the elevation of what Mr. Stonham had called the table land was the cause of the absence of certain weeds, and not merely the geological formation. He believed that elevation had a good deal to do with the growth of certain weeds.

Mr. A. CHITTENDEN said he could not believe that the samples which were offered in the ordinary way contained anything like the number of weed seeds represented in the

table Professor Buckman had furnished. Their best way out of the difficulty seemed to be—and he thought they were all gradually taking that course—was to go to certain dealers in seed and growers in seed of recognised reputation, and who sold an article of guaranteed quality. After giving an instance in which a well-known farmer having been asked by a seed firm nearly double the current price in the market for some trefoil seed, and having submitted the expensive seed to an examination, he came to the conclusion that it was better and cheaper for him to purchase that than the cheaper seed.

The CHAIRMAN said that, with the permission of the Club, he would direct their secretary to write to Professor Buckman, expressing their regret at his illness, and his consequent absence from among them that evening, and hoping that he would come as soon as convenient, and lecture to them as he had promised, and also to thank the professor for the paper he had sent them.

Professor BRAZIER (Aberdeen) said they were always buying superphosphates, but did they contain the ingredients they wanted for all their plants? He thought not. Coming to hops his opinion was that the farmer too often neglected the ingredients needed there. The investigation as to what was most essential for the growth of hops was made many years ago, and he thought that if it were made over again other conclusions would be arrived at. A French chemist had lately made a very careful analysis of the hop plant, and he had brought out that potash was a very necessary thing for them. He should be glad to see if a sprinkling of potash would not be of more service than a sprinkling of the manure now in use. The best potash came from Germany, and it would be more expensive.

Mr. CHINNOK, who has resided in Canada, said there were a vast number of young fellows in this country whose means were completely inadequate to keep their position here, and compete with others, and his opinion was that they might do well in Canada. He thought they would agree with him in this remark, when he told them that in his province, the province of which Quebec was the capital, they could grow a fair quantity of hops, and cut two tons of grass per acre, and that all the root crops have a special aptitude to grow, and that they could buy clear land at from £2 to £4 per acre, and all within ten days of Liverpool. Surely this was sufficient to convince many that they could do a great deal better there than here. Canada had also the recommendation of being our own colony, whereas if they went to the United States they would be in a foreign country.

LAVENHAM FARMERS' CLUB.

THE SEWAGE QUESTION.

At a recent meeting, Mr. Wm. Biddell in the chair, Mr. WIGGIN read the following paper:

The subject of town sewage in its economical application to agriculture, which I have the honour of introducing for discussion this evening, needs no apology at my hands. It is of national importance, and is beginning so to be recognised. It is necessary to enter briefly into the subject of the relation of sewage to the health of town populations, and of the urgent necessity to do something in settlement of the question which is now forcing itself upon the attention of the authorities of all our large towns. In its present magnitude, it is of but recent rise. The difficulty has been chiefly caused by the boasted civilisation of modern times. Formerly the drainage of our towns was a surface one, the open gutters in our streets carrying off the rain as it fell into the nearest river, the small quantity of organic matter being oxidised and rendered innocuous by the fullest exposure to the atmosphere. The faecal matter proper, together with the vegetable refuse and ashes, were received into covered middens or dust-bins, kept preserved from the rain, and periodically carried away by farmers' waggons, thus furnishing the land with a valuable manure. This state of things, which had existed from time immemorial, and under which men had never been troubled with the sewage question,

has of late years been upset. I cannot tell you the name of the inventor of the water-closet. I trust it will ever remain in obscurity, as to his genius the country is indebted for the cause of the sanitary muddle of the present day. Before his time, a gracious Providence having freely given us pure water for all uses, had also taught us the natural outlet for any excess of it was in the nearest river. Man had also taken care to preserve his faecal matter and refuse in as small a bulk as possible, that it should be as little possible nuisance to him, and sufficiently valuable to the agriculturist to induce him to remove it speedily. The introduction of the water-closet upset all these arrangements, which had worked well for centuries by mixing these two, so valuable when separate, into that worthless puddle which is now rapidly contaminating our water supplies, and changing our pellucid rivers into offensive, dirty streams. To such an extent is this evil now acknowledged, that whereas a few years since one of the Health of Towns Acts ordered that in all places where it was adopted a water-closet should be affixed to every cottage, it is the fashion now to revert to the old dry covered privy, and no cottages are now allowed to be built in Rochdale, Manchester, Nottingham, and several other places without an arrangement whereby they are kept dry, and so that they can be cleaned at stated periods. The earth-closet system of the Rev. Mr. Moule is

one that has proved very successful, and is another step in the right direction. I have but little doubt that in a few years we shall find still more perfect appliances in vogue, and greater facilities afforded in new buildings for the removal of the soil. Time will not allow me to enter into minute details of the various schemes by which in many places it was endeavoured to remedy this state of things. At first, simple subsidence and irrigating the low meadows of the neighbourhood with the watery part was tried, as at Leith, but as the nuisance from the smell was only diminished by enlarging its area, it was soon found other means must be used. Many eminent men, both chemists and engineers, have invented plans, none of which can be called successful. Their object hitherto has been to facilitate the rapidity of deposit of the insoluble matter. This has been done in nearly all instances by the addition of lime, alumina, charcoal, and various earthy matters. The results in no instance have continued to be equal to the sanguine views of the inventors, and it may safely be asserted the addition of the precipitants has reduced the manurial value to the lowest point, whilst the effluent water has in no case been pure. A process that has been elaborately experimented upon, and may be taken as a type of the majority, is the one called the A B C, said to be so named from the initial letters of its three principal constituents—alum, blood, and clay. It is now in process of trial at Leeds, Leamington, Hastings, Crossness, and other places. By the courtesy of the directors of the A B C Company, I have been furnished with samples of the effluent water and manures manufactured by them at several of these places, which I have the pleasure of submitting to your notice. The money value put upon them by the Company is much higher than that of Dr. Voelcker, who has published an elaborate series of experiments on the value of the A B C manures to the farmers. He estimates its worth as being from 14s. to 18s. per ton. It is, therefore, practically useless to them except on the spot. A ton of this so-called native guano he estimates as barely equal to a ton of farmyard manure. Dr. Voelcker has also published an elaborate report upon the value of the earth-closet manure. He arrives at conclusions different to the prospectus of the discoverer, and rather unfavourable to its agricultural value, considering that after three times drying, it only contains ammonia and phosphates equal to 6s. 2½d. per ton more than dry mould. I am much inclined to believe his estimate must have been taken under unfavourable circumstances. I can easily conceive, unless the ammonia were fixed in the drying processes, the full quantity would not be estimated. Besides this there can be no doubt that both the phosphates and the nitrogenous matter would be in the best form for the plant assimilation. It must also be taken into account that a dry system can be adopted anywhere, and be in reach of every farmer, whereas any system of ordinary sewage treatment can only be done in large towns, the carriage from which is an important item to contend with, and may be sufficiently costly to bar its use. The latest addition to our knowledge in this direction has been the report of the Committee of the British Association for the Advancement of Science, made at Brighton during the last month. Four years ago the Association made a grant of £10 to investigate the subject. The next year £50 were voted, which was supplemented by grants from various corporate bodies to the value of £1,530. The Committee begin by reporting their funds as exhausted, although the end of their labours was not reached. After touching upon the system of filtration through charcoal of the Messrs. Weare, the effluent water of which is described as dilute sewage, they note General Scott's plan of making a cement from sewage matter and its precipitants by burning them together, thus getting rid of the manurial element quickly, but to the nation at a costly waste. The effluent water here again is said to be diluted sewage. Whithead's process is more fully descanted on and reported favourably. It consists essentially of the precipitation of the sewage by successive additions of mixed phosphate of lime, milk of lime. The process is rapid, the suspended matter as well as much of the organic nitrogen being precipitated. Of course the precipitate containing so much phosphate would be valuable, and if it contains, as asserted, 3 per cent. of ammonia, it is still more so. Here again the effluent water is not pure. In the discussion which followed, one learned professor described the report as valueless, and disputed the calculations of the Committee. Another declared they had done nothing, and that no practical result had

been given such as would be of any value to the country. It appears that the cost of the phosphates before employment is about £4 per ton, and the increase in value after having been made into manure is not more than 10s. In all their reports much stress has been laid upon sewage irrigation, and doubtless over the extremely limited area over which it is practicable its application will be attended with excellent results. Mr. Hope, whose farm at Romford promises to become a rival to the famed one at Tiptree, states he has grown 80 tons of rye-grass per acre, and will soon obtain 100 tons, being able to keep four cows per acre: whereas in the best parts of Cheshire it required two acres at the least to keep one. Professor Corfield asserted that of the whole nitrogen escaping with the water 40 per cent. went off with the crop, 10 per cent. was lost in the drainage, and the remaining 60 per cent. was left in the soil, furnishing food to the plants after the sewage-water was discontinued. Should this statement prove correct, it sufficiently indicates the vast importance of sewage irrigation, whilst it shows the great national loss we yearly sustain by allowing even the effluent water of these systems to pollute our rivers. From what I have said I think it will be evident to every farmer that no system of treating town sewage at present known will make it *per se* of economical value to him. The best that can be said in its favour is that it may be a good base to which to add ammonia and phosphates from cheaper sources. There can be no doubt that the really valuable constituents of town sewage are held in solution not suspension, and that these are lost to the community. It is much to be regretted that so enormous a waste should be going on at our doors. I trust before many years the combined talent of the chemist and engineer may discover some means of getting over the difficulty which modern fashion has created. When the chemist has discovered some precipitant for the valuable fertilising matter, the engineer will doubtless soon arrange for its collection and treatment. We shall then be in a position to return to the land the greater part of the nitrogenous matter and phosphates received from it in our food, and now, alas, wasted. We shall have no necessity then to scour the world over to discover cheap phosphate deposits, but by returning to the soil what we have taken from it, we shall, with the assistance of the atmosphere, be able to restore to our fields that admirable fertilising power bestowed upon them by the Almighty in the beginning. Mr. Wiggan remarked that he would show the gentlemen present the state of the effluent waters from Hastings and Leeds, sent by the Secretary of the A B C Company. After an interesting series of tests, he remarked that the water from these two places was, in reality, but diluted sewage, and, in his opinion, it contained the great majority of salts, valuable to agriculturists for fertilising purposes. He thought they would be wrong in investing in the various companies which were started, until some much more improved system had been discovered. Mr. Wiggan also referred to the opinion expressed by Mr. Bailey Denton in his report to the Ipswich Local Board of Health as to the best means of sewerage the town of Ipswich, which opinion carried out that which he (Mr. Wiggan) had expressed. Mr. Bailey Denton in his report said: "That although such companies might relieve the borough for a time of certain difficulties and trouble in dealing with the sewage, there really is no ground for believing that the solid compost they make will be sold at a profit after the novelty of using it has passed away, failing which, the works would inevitably be thrown on the hands of your Board; that the manufacture of manure at the sewer's mouth may become a local nuisance; and the clarified water, after the solid matter is taken from it, contains more fertilising material than the extracted solid matter, and as this liquid would pass into the river its value would be lost." This statement was supported by the following letter from Mr. Bircham, of Chosely, near Lynn:—"Dear sir, referring to your favour of the 10th of November, addressed to me on this subject, I beg to say that after a second trial of this (so-called) manure, under circumstances exceptionally favourable to its success, if it really possessed any fertilising properties at all, my first impressions, as expressed in my letter in the *Agricultural Economist* of November, 1871, are fully confirmed. I find the stuff absolutely worthless, and the crops to which I have applied it now growing on my farm bear ample testimony to this, as anyone is at perfect liberty to see. Yours truly, W. B. BIRCHAM." In conclusion, Mr. Wiggan expressed a hope that his friends present would exercise a

good deal of thought before they were led away by the flaming prospectuses which were often presented. A short time since, when the money market was flush, several companies were formed for the supply of sewage, and the shares of some got up from 1 to 35 per cent. premium. He felt quite sure that the gentlemen who bought shares at 35 kept them, for the sharpers who started the shares at the Stock Exchange never intended to do so.

Mr. LEWIS expressed his belief that the introduction of water-closets had brought about the evil which was now so severely felt. There could be no doubt but that the old system, that of common privies, was the best one provided air was freely admitted, and that the buildings were not too close to dwelling-houses. As to the irrigation process, that might be of some value in connection with large towns, but for small towns, instead of being a good it was an evil, in fact a great nuisance.

Mr. WIGGIN called attention to the system pursued in Paris and argued that the mixture of water destroyed the faecal matter, and he pointed out that what ought to be done, was to economise the faecal matter and return it to the land. In Rochdale a system was adopted whereby the privy matters, were collected in tubs, and a most valuable manure was secured because no water was mixed with it, and it sold very readily. He (Mr. Wiggin) decidedly objected to the fluid, but at the same time all the valuable part of the material went away with the fluid. He had had the testing of many hundreds of samples of water from Ipswich and other places, and he could assure the gentlemen present that there was a great deal more contamination from sewage in drinking-water than many people could imagine. It had in fact got to that state that, in his opinion, it would be one of the principal things that Government would have properly to interfere about. The closets, were so constructed as to admit of the manurial stuff entering the soil, thereby contaminating the wells of the neighbourhood, and this of course was a very serious matter. He had a sample of water sent from a village near Ipswich, and he found it exceedingly bad from this cause. Mr. Wiggin also directed attention to the village of Tering.

Mr. BAKER thought Mr. Wiggin had done good service to agriculturists in treating the subject under consideration in the manner he had done. It had been fairly stated that there were difficulties connected with the sewage question which the ablest chemists of the day had been unable to solve, but he could not help thinking that there might be some system adopted by which the best portions of manure, the faecal matter, &c., arising from large towns might be separated. It appeared to him that it was only necessary to put the manurial matter into channels which would convey it into large tanks. To do this would only require a certain control over every household. Tanks could be made say for every 2,000 of the inhabitants; there it could undergo a process by which it could be removed and put on to the land, and thus prevent the contamination of the rivers, which was felt to be such an evil in various towns. Of course it would be perfectly useless to collect a large quantity of merely watery stuff, but it seemed to him that there might be two channels, or some other plan adopted for keeping that which was valuable from that which was of no value. With reference to the irrigation system he considered that that was one which would soon defeat itself. He believed it would eventually be found a far greater nuisance than it could possibly be a benefit. The crops that followed the application of that system were comparatively of little or no value. The grasses, forced as they were by this system, were not anything like equal to that which was grown from good manure or other natural appliances to the crops.

Mr. WIGGIN said that the whole tendency of his observations had been that nothing would be done until the two were separated. We were gradually coming back to that idea. The system pursued at Rochdale, Manchester, and other places were essentially a carrying out of the old plan. He was quite of opinion that the water used for domestic purposes should be kept perfectly distinct, and if that were done the faecal matter would be valuable. It was the mixture of the water-closet stuff which caused the evil so justly complained of in large towns. The fact was, it was modern civilisation that made us shirk the real cause of all the evil, which was the water-closet system. If he were the Chancellor of the Exchequer, Mr. Ayrton, or one of the great men in power, he would put a heavy licence upon all water-closets, a

tax so heavy that the removal of the contents of them should be paid for by it and not by the general public who did not use water-closets. The water-closet system was a great curse and nuisance, established merely to save the olfactory nerves of a comparatively few sensitive individuals.

Mr. BAKER thought if the tank plan he had named were adopted, something might be done to separate the solid from the liquid at the fountain head.

Mr. HITCHCOCK remarked that the matter for their consideration as agriculturists was not a particular system as suited to a particular town, so much as whether a manure could be bought which was of value for the land. Many elaborate and costly schemes were planned, but why not revert to the old system of privies, and have a privy to every house? He was recently at a place of about the size of Ipswich, with 45,000 inhabitants, and in going along the streets, he saw what appeared to him at first a fire engine, with hose and everything complete. A closer inspection, however, showed him that it was a steam pump then in the act of pumping the contents of a privy into a large iron tank. There was no smell at all a little distance off, but when he got near the house, he found there was a slight smell. When the iron tank was filled, the engine marched off with it to a farm. This seemed to him an admirable plan. There was only the contents of the privy in the tank. It came up in a solid form by the force pump, and was conveyed along large tubes into the tank, and carried away. Nothing could be more simple than that. In this particular town there could be no other way of getting rid of the contents of the privies half so good as this. The river there in the summer time was a very small one, and, therefore, if the sewage had been allowed to run into it, it would have become a most intolerable nuisance. The town he alluded to was Urfurt in Germany. The system was worked at the expense of the municipality, who had a system by which every place was emptied and cleared away at proper times. It certainly seemed to him that the manure obtained in this way contained fertilising powers which it did not when dealt with in the manner it was in many large towns in England. A good deal had been said of late on the subject of irrigation, but what was the use of irrigation grounds to agriculturists? What they wanted was to buy manure in as good and profitable a form as they could get it. It was not the business of agriculturists to suggest elaborate schemes for the dealing with the manure of towns, so much as it was to buy it at a reasonable price, after it was collected in a proper form.

Mr. BARKWAY advocated the erection of tanks on the premises of a good depth, and having them cleared out at stated periods. He adopted this system himself, not thinking it right to allow anything of the kind to run away from his premises. It was much too valuable for that. He believed that if people generally were to try and adapt themselves to this principle we should hear nothing about refuse matters polluting rivers. For his own part, he could not understand why the public generally should be called upon to contribute towards expensive schemes simply because fastidious people would not do that which was so absolutely necessary. Those who had a good piece of land lost a great deal by allowing the refuse produce of a household to escape from the premises; and he could not help thinking that the most productive part of it was the urine. If it was taken care of it would be found of even more value to the crops than the faeces, because in the faeces most of its good properties passed away, and that which was left was comparatively valueless. The tank he erected on his premises was about 14 feet in depth.

Mr. HUSTLER said that all appeared perfectly agreed as to the desirability of keeping the liquid and the solid matter separate, and when this difficulty was solved it would be a remedy for the evils of which the inhabitants of large towns now complained so much. That they as farmers had long felt the necessity of this being done was evident from the care that had been taken to prevent too much water getting with the farmyard manure, it being felt that the manure lost much of its value by water washing through it. He had seen Mr. Mech's system, and was of opinion that the question of expense alone was quite sufficient to put it on one side as impracticable in its general application. In order to properly manure land with liquid manure it was necessary that there should be an enormous quantity, and the question of expense therefore became a very serious one. In conclusion, Mr.

Hustler characterised the new-fashioned watercloset as a perfect nuisance.

The CHAIRMAN said there was no doubt but that all the sewage schemes of the present day were failures more or less. For his own part he was a great advocate for earth as against water. He had tried it, and was perfectly satisfied with the result. There was great difficulty in substituting earth for water in old towns, but if a town were to be rebuilt it would not be difficult to keep it in a proper and cleanly state by means of earth-closets. However, he was rather inclined to believe that more of the evils which were felt were attributed to waterclosets than was just. He feared that a good deal of the mischief emanated from the back kitchens, a good deal of offensive and injurious matter going into the sewers, so much so that if even the watercloset stuff were kept out, the sewers would be nearly as objectionable. In the kitchens of farm houses there was always the swill pail to receive that which would otherwise pollute the sewers, but in towns there was no such receptacle, and all of course went into the sewers. He must confess that his agricultural respect for the earth-closet was greatly diminished on reading the analysis made by Dr. Voelcker of the contents of some of these closets. He (Mr. Biddell) felt that Dr. Voelcker must have made a mistake, and that the figures he gave did not represent a fair test. We might very well imagine that a clear water was pure, but the tests which Mr. Wiggin had made showed abundantly that that was not so, that there was valuable matter held in solution as well as mechanically floating in it. But his (the Chairman's) notions of the qualities of liquids had been very much shaken by the almost universal failure of the old liquid manure tanks, which were built when there was such a rage for liquid manure. Where they now existed they were invariably found overgrown with nettles and the pump entirely out of order. There was no respect entertained for these tanks in the present day. The experiment was tried by many, years ago, but did not bring forth the results anticipated. As to the system of irrigation, it had been said that the quantity of land set apart for the purpose was too small. At Bury it was said to be just the reverse—that enough was not made for the land. Much had been said in regard to the waterclosets, but his opinion was that if the inhabitants of say a whole street were to try the experiment of substituting earth for water, the material would be cleared away and found to more than pay the cost. Doubtless the farmers would be exceedingly glad to keep these people well supplied with dry earth, and take away the used earth; but that would not of course get rid of the kitchen refuse, which was calculated to do so much of the injury. With reference to the old-fashioned privies, he confessed he could not say much in favour of them. He thought that as a rule the cesspools were not sufficiently low in the soil. When too, near the surface, there was danger from fermentation,

and gases being given off in the most hateful and hurtful form; whereas, if the well was well covered up, there was not that danger. If the old system of privies was to be re-established, this fact must be kept prominently in view. He feared that people had indulged in the luxury of waterclosets too long for them to be induced to give them up very readily. The great difficulty that had to be contended with was the dilution of the town sewage. If the townspeople continued to mix ten tons of that which farmers could get for nothing with about a quarter of a ton of that which, if separate, would be good, he could see great difficulty in farmers removing the stuff.

Mr. WIGGIN, in reply, said they all agreed in the main with what he had advanced. It was only in the matter of detail in which they had to some extent gone away from the record. All the evil arose from the mixture of two valuable articles, which made a great bulk when mixed, and until the cause was removed it was, of course, quite impossible to deal with the effect. He spoke in favour of the system pursued at Erfurt, as described by Mr. Hitecock, adding that it approached closer to his (Mr. Wiggin's) idea than any system he had heard of yet, and he should certainly take the opportunity of making further inquiries respecting it. What was wanted was some system whereby the towns could be purified, and then, undoubtedly, agriculturists could be furnished with a material which would grow an increased quantity of corn. It was merely a moving backwards and forwards of the material. Meat and corn were obtained from the land, and furnished to people living in towns, enabling them to subsist; and the refuse matter from towns, properly dealt with, should be returned to the land, enabling agriculturists to produce these articles *ad infinitum*. But what was done in the present state of things? From false notions of delicacy we allowed that which was valuable to run waste, polluting the rivers and streams, and we imported at great cost, phosphates, &c., in the shape of guano, whereas, under proper treatment, these necessities could be restored to the land without cost to the country, for that which was carried away was absolute loss. It behoved each of us to do our utmost to remedy this state of things. After referring to other points which had been raised in the course of the discussion, Mr. Wiggin, in conclusion, remarked that the Ipswich people had a great fear before them, knowing that at Norwich the sewage works had cost about £100,000, and was, to all intents and purposes, a failure. Ipswich might be called upon to spend £50,000 or £60,000 under the orders of the Government, and there was no reason why that should not be a failure too, seeing that there was no real success in the matter at present. He questioned very much whether the system adopted on the plans of distinguished engineers would be found of any purpose whatever.

The proceedings closed with a vote of thanks to Mr. Wiggin.

THE LAND QUESTION.

At the Social Science Congress, at Plymouth, Lord Napier and Ettrick, President of the Association, said,

With the Education Acts for England and Scotland, and the Public Health Act before us, we cannot doubt that an impulse has been given to educational and sanitary work which must be progressive, and happily this progress will be conducted in the main with the concurrence and assistance of every party and class in the nation, however much parties and classes may still differ about forms and means. In both departments the ground is cleared and the basis of the edifice is laid. Under these circumstances, in my humble judgment, the question which beyond all others deserves our sustained and dispassionate consideration and action is the question of real property viewed in its political and social aspects. On this subject the opinion of the country is less matured, and the deliberations of the Association, the writings which it may prompt, and the discussions which it may raise, can be of vital use in leading the public mind to just, moderate, and acceptable conclusions. The distribution of property is the feature in our laws and customs which presents the greatest apparent hardship, which arouses the keenest sense of injustice,

which affords the readiest materials for misrepresentation, and which discovers the most dangerous inconsistency between our political institutions and our social condition. In endeavouring to place the question before you in its simplest outlines, I shall be unavoidably involved in the utterance of opinions which to many are commonplace, and in the repetition of facts which to most are notorious. But it is not indifferent that this should be done. Mere reiteration is a powerful agent in the creation of prevailing beliefs, and public convictions can no more be formed by one argument than a horse-shoe can be forged with one blow. With reference to real property let it then never be forgotten for one moment that Great Britain stands apart and alone in the civilized world. In other respects our institutions, compared with those of foreign countries, exhibit that sort of divergence which may be likened to the various elements of colour in a diversified but not inharmonious pattern. In regard to property, there is a contrast which arrests and offends the eye. Permit me to present once more in a few rapid strokes the familiar features of the case. In Great Britain real property is transferred and transmitted under laws, customs, and influences which all

combine with irresistible, increasing power to produce consolidation. Primogeniture, entail, traditional predilections, the exigencies of fashion and recreation, the accumulation of capital are working incessantly together to promote great aggregations of land in the hands of a few. The statistics of landed property have not yet been verified with any accuracy, but it would be hazardous to estimate the number of estates above the dimensions of a garden or a paddock at more than 100,000 in a country which numbers more than 26,000,000 of inhabitants, and there are but few counteracting agencies at work to mitigate the perilous progression towards monopoly. It may be broadly asserted that in no country does so large a proportion of the population live in lodgings as in Great Britain, or in separate habitations as tenants at will; in no country do so many live on the land of others without a lease or with a terminable tenure; in no country are the prerogatives and delights of property vested in such a restricted number. The proportion of those who possess to those who possess nothing is probably smaller in some parts of England at this time than it ever was in any settled community, except in some of the republics of antiquity, where the business of mechanical industry was delegated to slaves. France, Germany, Italy, Russia, Switzerland, the United States, the British Colonies, all the countries which count for something in the world, which propagate ideas, or offer examples, or present points for comparison, which fascinate by their past or which possess the promise of an expansive future, all have committed acts or adopted principles and measures which conduct them on a path directly opposed to that on which the destinies of England are still impelled. In France political confiscation founded, and the compulsory partition of land on succession has accelerated, the division of property to such an extent that the number of estates is almost equal to the number of families engaged in agricultural pursuits. In Germany a revolution of the same nature, though not of the same magnitude, has been effected in a more regular manner. The benefits of landed property have been imparted progressively to a numerous and prosperous class of cultivators by the abolition of feudal superiorities, by the restriction of entails and special destinations of land, by the deliberate division of estates between the landlord and the occupier on a basis, if not always equitable to the former, at least patriotic in its motives and happy in its results, and by the operation of rules of succession reproducing in some instances the primitive laws of the country, and in others adopting, with various modifications, the maxims of the French code. The principles of partible succession in a temperate form, the confiscation and sale of church lands, and in some degree the forcible dismemberment of feudal estates, alleged to be subject to communal rights, have been the agencies by which Italy has moved in harmony in this matter with the other Continental States. Partly owing to the fact that the repartition of property is most common in the least productive districts, and partly owing to the vicious or exacting systems of tenancy practised in the more favoured provinces, it would appear that the rural population of the Italian kingdom have felt neither the benefits attached to a small or a great proprietary. The original laws of Russia promoted the division of the property of the land in the limits of a privileged order, and the usages of the country fostered a communistic method of repartition and culture in the portion of the soil appropriated to the village community which was held to labour, attached to the glebe, and subject to the personal authority of the lord. The writings of Mr. Michell and of other economists have made us acquainted with the history and character of that memorable instrument by which the Emperor of Russia has endeavoured to fulfil a vast and complex task, to liberate the Russian serf class from the personal authority of the noblemen, to invest them with property in the soil, to indemnify the landlord for the prejudice caused to his material interests, and to give stability to population, production, and the revenue of the State, by perpetuating the bonds and obligations of the village as a unit of rural life. Twelve years have now elapsed since I had the good fortune to be a witness at St. Petersburg of the promulgation of the Act of Emancipation and Endowment, and, notwithstanding the disenchantments which are ever ready to follow in the track of philanthropy, the scene still remains the greatest recollection of my life, an impression that can never be repeated and can never be forgotten. There was for once no formal ceremonial of court or camp.

In the Cathedral of St. Isaac, from the sacred lips of the metropolitan to a rude and humble multitude hushed in breathless expectation, the imperial message came which carried liberty to all and land to all who would work to earn it. Enslaved and disinherited the crowd went in, a few simple words were uttered by an aged priest, the people melted quietly away into the wintry air, transformed, it seemed, as far as laws could alter men; no one shouted, no one spoke, but they lingered in the shadow of the church as if unwilling to depart from a spot where so bright a promise had descended. That moment gave a legal and lasting interest in the land of Russia to 50,000,000 of its inhabitants; directly to some, indirectly and inferentially to others. That the gift has been deeply marred by the conditions there is little doubt. The Act of Emancipation is not exempt from the infirmities which belong in other countries to the best efforts of legislation. It reflects the errors of its authors, the necessities of government, the prepossessions of the nation and the time. Immersed in ignorance, subject to the prescriptions of a venerable superstition, encompassed by the hardships of nature and the seduction of a predominant vice, the mass of the Russian people will emerge laboriously from the second thralldom of the village and the State, but the path on which they have been placed must inevitably conduct them to the full exercise of individual liberty, and the full enjoyment of individual property. In Switzerland, the land has long been the inheritance of the people. The testamentary freedom of the proprietor is limited by positive prescriptions of law differing in the several cantons. The custom of the country, and the character of the political institutions, favour an equal division in most. The United States, and all the communities founded by English enterprise in various quarters of the globe, have adopted the principles of free testamentary power and equal division in case of intestacy. The policy of Government in those countries is to stimulate immigration; to fill and till the national domain; to afford to labour with all possible expedition its best reward in the shape of land; to reconcile the wildest exercise of equal political rights with public order, by giving to every citizen something that he will value and something that he can lose. In India, where England has assumed such a weighty charge in guarding the welfare and directing the destinies of mankind, no attempt has ever been made to propagate or accredit the principles of the English law of inheritance, and no tendency is now discovered to reproduce the features of our social condition, of which that law is the powerful associate. It would be easy, but it would be idle, to multiply examples from the legislation or the usage of foreign or dependent nations to prove with what strength and unanimity the disposition runs to impart the benefits of real property to the greatest number. I would ask you, then, whether it is possible that the policy of England can long follow a different or contrary direction? Is it possible that England, which has taken so large a part in the formation of the political and economical institutions and doctrines of other States, can exclude from her own social system the reaction and reciprocal influence exerted by those States in a matter of such engrossing interest? No reflecting mind surely can admit that such partial isolation can endure in the midst of general communion. The contagion of foreign example alone would be unavoidable and irresistible. It would, however, be in the last degree imprudent and erroneous to place the expediency of social innovation chiefly on the ground of necessity. An alteration of the laws affecting real property, a movement towards its repartition and diffusion must be advocated from motives of philanthropy and policy, and happily this is not difficult. It will not be disputed that property is an important element in civilization and public order. The acquisition and preservation of real and personal property of material objects ministering to the wants and the enjoyments of life constitute the gratification of a natural instinct, and may be the source of many useful virtues. The possession by the poor of domestic furniture and of live stock alone inspires habits of carefulness, frugality, industry, and forethought. The position of a labouring family inhabiting a furnished lodging would be in every moral and social respect below the position of a similar family occupying an independent dwelling with their own furniture, their cow, their poultry, their pig, their garden, and their grazing ground, even without any lease or security of tenure. If to the possession of perishable and transitory objects you add that of property of a more durable nature,

such as land and houses, you must surely intensify all the good influences to which I have referred. The possession of the soil and the habitation ought, when associated with some culture and elevation of mind, to carry with it patriotism or devotion to the State; loyalty or attachment to the representative of sovereign power; independence, self respect, respect for the rights of others. It should nourish and prolong the exercise of mutual duties and affections in the family, and sweeten life with many salutary recreations and pleasures. If such are the benefits which should naturally be attached to the possession of property, especially in a community endowed with political franchises and having access to the advantages of education, how deep must be our concern, and how legitimate our anxieties in witnessing the disabilities which a great proportion of our countrymen suffer in this respect, and how earnest should be our endeavours to help them to the enjoyment of property in its different forms by every means consistent with peace, with justice, with existing rights, and with the exercise of those qualities of self-denial and self-reliance without which no substantial welfare can be founded in that numerous class of society of which labour is the inevitable portion! We must all recognise the want, we must all admit the duty. Unhappily, in searching for the means of action, it becomes at once apparent that there are many difficulties in the way which have not operated with the same force in other countries, in which the question has been already solved, or which are altogether peculiar to our condition. Among these impediments the following may be noted as the most conspicuous: The extinction of all positive or traditional claims to a participation in the land-rights of the proprietor on the part of the occupiers and cultivators, leaving nothing but rights under contract where such exist. The high value of land produced by the abundance of capital derived from the profits of manufactures and trades. The immense amount of capital invested by the landlord in Great Britain, in farm-buildings and permanent improvements, in connection with the existing groups or areas of cultivation. The large amount of capital required for the cultivation of land and the maintenance of stock in a country where scientific culture is firmly established, and where that culture alone can raise production in any degree to a level with the requirements of the whole people, already so insufficiently supplied. The power which the proprietors of land, and those who share their interests and convictions, possess, and justly possess, in the Legislature and Government of the country. Bearing in mind these exceptional features in the social and political condition of our country, let us proceed to a consideration of the expedients which have been proposed or might be suggested for the correction of the evils and dangers attached to the excessive concentration of real property, with the view of ascertaining what can be adopted for present action, and what should be definitively or temporarily laid aside. After making a liberal recognition of what the proprietors of land have done in the way of sanitary and moralising work in this country, the truth is written far and wide upon the face of the land that much more lies undone. The reports of the Commission appointed to inquire into the employment of children, young persons and women, in agriculture, are the true mirror of the condition of the labouring classes depending on the land. There we can see how the labourer lives, what he learns, how he works and struggles, sometimes starves, and mostly ends—not in the kindly shadow of the hall, not on the pleasant verge of the garden, the park, or the home farm, but over the common surface of the soil, out of sight and partly out of mind. Nothing is disclosed in stronger colours in those reports than this, that the dwellings of the rural population urgently demand a very general reconstruction. It would be hazardous to assert in the face of those statements that more than two-thirds of the existing habitations are satisfactory or susceptible of improvement and enlargement. The last census report for Scotland tells the same story and supplies some statistical details. One-third of the population live in tenements comprising one room only, another third live in houses with two rooms; one-eighth only possess dwellings with three rooms. There is little distinction between the scale of lodging for the industrial and for the agricultural classes. As far as rooms are concerned, dwellers in towns are provided in the same way as dwellers in the country. A comparison of the reports concerning England with those concerning Scotland lead me to

believe that with reference to house room the two peoples are now much alike. If a minimum of one-third of the agricultural homes of Great Britain require to be rebuilt, you have something like a measure of our great necessity on the rural side. It is a matter of building seven hundred thousand cottages at a cost of seventy million sterling. In regarding the work that lies before us, two things strike me as certain. The work cannot be done in any considerable measure by the labourers, and it must be barren of all direct remuneration to the landlord. The agricultural reports are decidedly adverse to the old-fashioned freehold cottage. Give the labourer a patch of soil for himself or let him take it; he will raise a hovel which will too often become a scene of over-crowding dilapidation, slovenliness, and every sanitary abuse. Build the labourer a substantial and wholesome habitation on a garden and fixture allotment, and let him become the proprietor of the place by a course of industry and self-denial, there is a prospect that it will be kept with decency and pride. The man cannot make the house, the house will make the man. I have seen various projects and estimates to prove that cottage building may become a good investment, but reason and experience convince me to the contrary, as far as the landlord is concerned. The rural population are not too few for their work. They are in some places too numerous. We do not want more men and additional cottages, but better men and better cottages. The proprietor cannot gain by multiplying the dwellings of the poor, except at the cost of another proprietor; and at the best the rent will scarcely do more than cover the repairs. As a rule, the landlord can only create good dwellings as substitutes for bad ones. Nor can he charge a higher rent for a good dwelling than he does for a bad one. The labourer is highly rented; sometimes rack-rented already. A new house will usually be found more expensive than an old one. It requires more fire and more furniture. The rents now paid should in many cases be reduced, if the labourer is to be settled in a more spacious and better divided dwelling, and if he is at the same time to withdraw his children from field labour and pay for their elementary education. Indirectly, I concede that the landlord may obtain some compensation for his outlay. The reconstruction of cottages, when pursued on a comprehensive plan, will be accompanied by redistribution; the habitation of a labourer will be placed adversely; he will be fixed nearer his work; the labour supply will be rendered more covenient and more regular; the hours of labour may be better assorted; and the strength of the labourer will be economised for remunerative exertion. The general improvement which may thus be effected in the working capacity of a farm may give it some increased value in the market. On the whole, however, the reconstruction of cottages by the landlord, with a due regard to moral and sanitary requirements, will be a work of love and pride, not a work of profit. Rural cottages fall into two groups: those which are associated with the current cultivation of the farm, and are destined to be habitations of farm-servants; and those which are intended to be the dwellings of unattached working men employed on roads, public works, agricultural improvements, or in handicrafts and trades. The first class must be built by the landlord, and must remain his property. The second class need not necessarily be built by the landlord, and might, in my humble judgment, even when the landlord undertakes the first outlay, be subsequently converted into labourers' freeholds with manifest advantage. In the reports recently submitted to Parliament on the operation of building societies, I do not find to what extent they have spread to purely rural districts. I conceive, however, that it would be much in the interest of proprietors of land to encourage the introduction of these agencies by becoming shareholders; by recommending them to the labouring classes; and by providing them with freehold sites on beneficial terms, with careful provisions, however, as to the quality of the structures to be erected. The landlord would thus be eventually relieved of the obligation to keep up superannuated and unremunerative buildings; the labourer would pay his rent with the hope of becoming a proprietor; the right of suffrage would be exercised with more independence and reflection; the child would be attached to the parent by a prospect of succession; and a home and a fireside would be substituted for a bed in the workhouse at the end of the perspective. The intelligence and conscience of the country having been aroused in this question, I think that we

possess powerful guarantees for the reform of those social evils which are connected with the habitations of the rural poor, and even for the creation hereafter, under better auspices, of an order of labouring men holding a share of real property; but as in all classes there are individuals who are not accessible to the instigations of honour and duty, it may be desirable to examine the question of State interference. The question is a delicate one, and I would rather refer it to your consideration than hazard opinions myself. Speaking, however, in a suggestive spirit, I consider that great results may be expected from inspections and reports. These should be frequent, particular, and personal. The official indication of individual neglects, which in the present state of the law would be invidious and cruel, would become, under other circumstances, legitimate, and it would be in most cases irresistible. The sanitary authorities of the rural districts should be invested with the most ample prerogatives for the regulation of the character of the habitations within their jurisdiction. They should have absolute power to declare any building unfit for human habitation on the report of the Government inspectors and to order it to be closed or removed after reasonable warning. No new building should be erected until the site and the plan had been submitted to the sanitary authorities for a time, so that objections might be taken on public or private grounds. The sanitary authorities of the district might, on the report of the Government Inspector, and with the sanction of the board of local government, exercise a limited power of expropriation against proprietors of land where an invincible repugnance was discovered to rebuild rural habitations in sufficient numbers and in appropriate situations. In such cases the sanitary authorities might be empowered to contract loans for the construction of labourers' dwellings on the sites thus obtained, or to enter into contracts with building societies for the same purpose, laying, if necessary, especial rate upon the property in fault. The rights of property must always be subject to limitation and constraint, the degree and direction of which will be determined by public expediency, and land having the greatest share of common interest is most exposed to the exercise of State interference. The condition of the land cannot cease for one moment to affect the welfare and enjoyment of the whole people, for it contains all the first elements of salubrity, sustenance, and productive power; in the use of the land we find our best recreations and remedies; in the view of the land, a cheap and universal pleasure. Morally, it is no more incumbent on the landholder to do good and to prevent evil, than it is on the fundholder; but his duty is more apparent, his powers are larger, and his obligations are more easily enforced. Nor can it be said that these liabilities are without compensations, for if the omissions and the wrongs of which the landholder is guilty, cannot be concealed, and must be corrected, his good work are conspicuous, popular, fruitful, and enduring. I regret that I have not been able in the limits of this address to refer to the introduction of the co-operative principle in the cultivation of the soil, or to the acquisition of real property by the artisans and workers in factories resident in towns. The emancipation of the land from its present trammels is, however, a desirable preliminary to the former, and would prove a valuable aid to the latter. The Parliamentary report on Building Societies contains a vast mass of information, in a rather undigested shape, upon the efforts of association in various forms in enabling the working classes to become possessors of new dwellings. The happy innovation which is thus being carried out in many districts, is, perhaps, scarcely appreciated by the public. It appears to me that by these agencies, aided by improved legislation, the force of public opinion, the enlarged authority of municipal bodies, and the facilities of modern locomotion, the benefits of real property may at no distant date be made as open to the English operative as they are in any part of Europe, except perhaps among the artisans in Germany and Switzerland, who are engaged in cottage industries, or in rural factories, provided with water power. In the extension of this useful movement it is, however, of the greatest moment that the urban sanitary authorities should be furnished with powers of control, expropriation, and direct action, commensurate with those which I have suggested for the rural districts. In reviewing the means and facilities which can be supplied to the labouring classes of our fellow countrymen for the attainment of a larger share in the benefits of real property, the impression still remains that the

transformation must be difficult, prolonged, and incomplete. Nature, depositing the materials for an unrivalled mechanical industry in our country, has probably pronounced a sentence of disqualification against a portion of the people; but this condemnation, which affects the whole, does not affect the individual. The land in England is limited in extent, and while our manufacturing prosperity lasts, will be difficult of acquisition; but there are other Englands, which it requires no unusual share of knowledge, enterprise, or wealth to reach. It is speculatively possible for every Englishman, who desires to combine property with labour, and who finds it hard to do so here, to pass into other communities of the same blood and language, with congenial institutions, and with physical conditions of climate and soil not greatly differing from our own. Every year will diminish the practical obstacles on this side, and the incentives are still increasing on the other. No view of the land question in England is ingenuous or comprehensive which does not take account of emigration, which does not recognise the fact that the English people have an outlying but accessible domain, where property can be long made common to all; and could, if that were preferred, be used in common by any number. It is the more necessary to insist on this, as so much stress is laid on the quality of limitation in land by those who advocate the restriction or exclusion of proprietary rights in this particular.

Sir STAFFORD NORTHCOTE said: Certainly even though I must admit I was a little bit alarmed at some portions of my noble friend's address, yet when we came to see how it all worked out that alarm was very much mitigated. We found that in the beginning of the latter portion of his address, that relating to the tenure of real estate in England, he was laying down principles from which one would feel disposed to infer that in whatever respect the English system might differ from the systems of other countries it must be wrong, and that we must be prepared to alter it. Yet as he went on and we had the modes in which alterations were proposed laid before us and discussed, we saw more and more how difficult it was to bring the state of things in England to the level of any Continental system, and that there was a good deal to be said on both sides of the question before it could be settled. I think, too, that we shall all agree in this—that the question is one of primary importance, and that too great prominence cannot be given to it, and is not certainly, in the address to which we have listened. We must, however, all bear in mind that it is not because the system of England differs from that of any other country that it is necessarily wrong; but we must have it proved that it is wrong in itself, and that it does not admit of being set right, before we proceed to substitute other systems for it. We have to deal with differences of system which have been growing up for centuries between us and the nations of the Continent; and I may perhaps ask my friends to consider that although possibly we may have been going on the wrong track with regard to other nations, yet that our progress has not been less assured than theirs; and that although undoubtedly it may be very unwise and improper in us to hug ourselves in the belief that we are superior to other nations, that should not lead us to be in a hurry to cast away our system until we are quite sure that we can get something better. With regard to the land system, those who are familiar with De Tocqueville's "*Ancien Régime*" and the "*Origine de la Révolution*," will have been struck with many points in the French system having appearances analogous to ours; but which developed into something which prepared the way for the Revolution; in this respect—that the noblesse and the landed classes were dissociating themselves from public duties. And, on the other hand, if we go to the other class of nations, it is only two or three days ago that a distinguished American senator told me that the great difficulty in America was that of getting men of the right class to take part in public duties. He said, "It is because we have no class such as England has formed by her system of primogeniture that we experience this difficulty." I don't say these are conclusive arguments for the retention of the English system, but these are things to be taken into consideration. We must take care that in our anxiety to root out the tares we don't pull up some of the wheat. I just make these remarks as a sort of caution or caveat to say that I do not agree with all that has been said.

HADDINGTON FARMERS' CLUB.

THE POTATO FAILURE.

At the monthly meeting of the Haddington Farmers' Club the subject for discussion was "The best mode of lifting and securing the potato crop."

The discussion was to have been opened by Mr. Belfrage, Samuelston, who, however, could not attend, and who sent a letter in which he stated that ever since he had come to the county he had adopted a plan which consisted of the pulling up of the shaws and the gathering of the potatoes drawn up—then the opening of the drills with the potato plough, the workers gathering them abreast, with carts behind. The cost of this plan was about 16s. per imperial acre. The best way to secure the crop, he added, was to make the pits four feet wide and two inches deep, with wisps of straw along each side, at the bottom, the potatoes neatly trimmed up, with a good covering of wheat straw on the sides and a covering of about six inches of soil, leaving the rigging of the pit uncovered with soil for a week or so; at the same time to beware of frost.

Mr. DOUGLAS (Athelstaneford), the chairman, said: When the subject was proposed at the July meeting there was every prospect of a full average crop, but they must now feel the subject to be a very disagreeable one. In fact, there was no necessity now for taking it up, because a blight had attacked the crop and done its work so thoroughly that it might be said that the potato crop was altogether destroyed. In a great many instances it was a question if the crop was worth the lifting; generally speaking, it was pretty certain it would do no more than cover the expense. This state of matters, so far as he could judge, was much the same over all the county, and it must be apparent that an immense loss must thereby be sustained, for a considerable breadth of potatoes had been planted this year. He could not speak accurately as to the number of acres under this crop, but if it was calculated at an average price per acre, what a large amount of money value it would represent! On a great many farms in the county, from 30 to 80 acres of potatoes were annually grown, which must entail a loss on such farm of from £750 to £2,000 on this crop alone. This was no over-statement, for it was well known to practical men that to grow anything like a full crop of potatoes required an outlay of £20 per acre. Unhappily, this overwhelming loss was not the only one the farmers had to lament this season. The weather throughout had been so unpropitious that the grain crops had suffered severely—probably to the extent of nearly one half their money value. Beans were the only crop that seemed to have withstood the disastrous season. Hay in many cases had been much injured, and a considerable quantity rendered unfit for fodder, while turnips over the county must be regarded as only half a crop. In some instances a few good fields were to be seen, but as a rule they were light and not bulbing well. Altogether the destruction was so general and the consequences were so disastrous that it was a mystery to him how the rents were to be met. With regard to the question for discussion, he went on to notice the following modes of lifting potatoes—first, by the grape and the baulking plough, prepared with a raised set of fingers on the breast of the plough and behind the moulds to expose and scatter more perfectly the tubers on the surface; and secondly, by Hanson's potato-digger, which he believed was the cheapest and best plan for digging potatoes, as it exposed all the potatoes to view on the surface, so that the crop was more cleanly taken out of the ground than by the plough. Potatoes should not be put together into the pit in too great bulk. Four feet was considered a convenient and safe width for the tubers keeping well, and in no case should the pits exceed four and a half feet. The potatoes should be put on a convenient site, and if possible on light dry land; they should be sunk from 6 to 9 inches in the bottom and moderately covered with straw, but not too thickly, as it encouraged mould and growth in the potato: they should run from south to north, and a space on the top of the pit should be left uncovered with earth, to allow of ventilation and to dry the tubers thoroughly. Proper drainage should be attended to, in order to keep the bottom of the pit free from damp—that was to say, the outside of the pit should be lower than the inside—and they should not have

an excess of soil put upon them; rather some dry haulms, or other rough material should be thinly laid on the pit, which could be removed in spring, and would tend to prevent sprouting. Some people stored the potatoes on the surface when they formed the pit, but he considered that if the pit was four feet wide, and sunk nine inches, the potatoes kept better, and were not so liable to get blackened. Unfortunately, the present year was quite different from 1845, when the potato failure occurred, inasmuch as the disease or blight did not then attack the crop till it was full grown. The crop was a full average one, and the diseased tubers kept through the winter, and were used for cattle, so that a considerable value was got for them. But this year the crop was struck down early, when not full grown, and in the late-planted crops the roots were very small and nearly all diseased. There were a few untainted, principally of small size, but he feared much that all that were diseased would go to pulp. However, the land must be cleared for the following crop, and the sooner it was done the better. Any tubers that were untainted should be kept from those that were unsound, and stored in small quantities, while the others should be sent at once to the starch-mill, if they were fit for that purpose. Comparing the grain crops of the two years, that of 1845 was a full average and all well secured, so that it tided the farmers in a great measure over the severe loss suffered on that occasion. But the present had been the most deplorable season he had ever known, and the consequences could as yet scarcely be realised, but they must be disastrous. The potato crop lost—the grain crop irretrievably damaged—all this was very sad, for at one time the prospects and hopes of the farmers had run high. There had appeared to be plenty for man and beast, but all was now changed. It was a case where

Hope withering flies, and mercy sighs farewell.

Mr. HOPE (Fentonbarns) was sorry to say he most cordially agreed with what Mr. Douglas had said regarding the crop of the year 1872, which went beyond anything in his experience. He had a very faint recollection of 1816, and he remembered the great relief with which he had eaten the bread baked of the crop of 1817. But he did not think that even 1816 had been so bad as the present year, because at that time the quantity of potatoes grown was small compared with the quantity which the farmers had found it so profitable to grow for so many years past. They should be thankful, however, that they had something in hand from former seasons, derived chiefly from the potatoes, but if they had a recurrence of such disasters, they might perhaps lose more than they had made. However, he hoped for better times. Regarding the taking up of the crop, he did not think he had seen any implements—potato-diggers—that were quite up to the mark, taking them all in all; and he thought the crop could be lifted better and more cheaply by means of pronged ploughs. In a year like this, they should be particularly careful in having the pits as narrow as possible. If they were made three feet wide it would be much more secure than the ordinary width of the pits. It was only after the great disaster of 1845 that potatoes began to be grown to any extent in Scotland. At that time he had only eight acres under potatoes, which was not one-tenth of what he had been in the habit of growing since then. He recollected quite well taking up his potatoes and carefully separating the diseased from the sound ones, putting the latter back again, but on looking at them afterwards they had all gone together. The "gatherings," however, which had been put away and allowed to lie, turned out to be very little different from what they had been when lifted up. Therefore, he thought it of importance never to touch potatoes till they came to be used, because, if they were heated a second time, disease was sure to make its appearance. He greatly doubted whether this year they would have a crop worth troubling themselves very much about. So far as he was concerned, he expected that out of the one-half he might get enough for seed, and out of the other half about a ton per acre; but he meant to take them up as carefully as he could, for the purpose of securing as much seed as possible for next year.

THE NOTTS. CHAMBER OF AGRICULTURE.

At the quarterly meeting in Nottingham, Mr. COLLINGWOOD proposed: "That this meeting present a memorial to the local authority under the Contagious Diseases (Animals) Act, requesting them to exert the power given to them to shut up all store fairs and markets in this county for six weeks at least, in face of the irruption of rinderpest into adjoining counties, and that fat cattle be only allowed to come to market under a licence to be given by a magistrate or superintendent of police acting for the district from which the cattle came."

Mr. GILBERT moved as an amendment: "That the time has not arrived for stopping the markets and fairs, and that this Chamber has sufficient confidence in the local authority to leave the matter in their hands."

Mr. BEARDALL seconded the motion.

On the amendment being put, ten voted for it and the same number against it. The original resolution was also put, when ten voted for and ten against. Mr. MUSTER, the chairman, on being appealed to for his casting vote, said as a member of the local authority to whom the proposed memorial would have to have been presented, he must decline to vote.

Both the resolutions and the amendment, therefore, fell to the ground.

Mr. STORER moved: "That the local authority be requested to memorialise the Privy Council to increase the amount for which compensation may be given for each animal slaughtered for rinderpest up to a value of £30, instead of £20, as on the last occasion."

Mr. J. PARR seconded the motion, which was carried.

Mr. STORER said that as Government had announced their intention to take up Local Taxation next Session it would perhaps be as well to wait and see what they proposed to do. He thought he might safely say, however, that the agricultural community were not to be taken with the bait Mr. Goschen had held out of dividing local taxation between the owner and the occupier. He did not think agriculturists or the landed interest generally would be satisfied with such a proposal, which would be mere evasion by which the moneyed classes would not pay their fair share of taxation, and would also make the question a bone of contention between owner and occupier, whereas they desired to see all descriptions of property paying towards local taxation, and to cause those descriptions of property which now contributed nothing to pay a fair share.

The matter then dropped.

Mr. HEMSLEY (Shelton) said he was sorry to see by the report of a recent meeting of the Chamber that opinions were expressed to the effect that because farmers were so well off in this county it was not necessary to discuss the question of Unexhausted Improvements. He regretted that such a feeling should have emanated from the Chamber, because it was well-known the counties of Nottinghamshire and Lincolnshire stood the best in England on this particular point, and for that reason, there was no county better able to express an opinion for the guidance of the county on this very important subject, for he considered it really the most important subject before the agricultural community, excepting the cattle plague. The questions relating to unexhausted improvements had grown gradually into practice, and though the system of this county might not be perfect it approached nearer to perfection than any other in the country. He thought if they looked fairly at it they would see that unless the question of compensation for unexhausted improvements was settled on a proper basis throughout the county they must really expect a land law which none of them hoped to see in this country. It was all very well for them to say that they were well off in this county, but he ventured to think that that was not the purpose for which chambers of agriculture were established. They were established to discuss all questions of interest to the agriculturists of this country, and he thought it would have been better to have gone thoroughly into it rather than take it by piecemeal, as by doing so they might have laid down a course of action for other chambers to follow. He considered that a good deal might be said upon this subject, and he desired to point out particularly that there was a limit

to which they could go in the employment of capital in agriculture. But whilst they were jostled on the one side by their friends in towns as to the employment of more capital in agriculture, and jeered by the Government on the other he would ask whether the investment of capital in agriculture had ever received that encouragement from the Government of this country which had been extended to trade and commerce? Had the agriculture of this limited island been fostered and encouraged as trade had? Their acres were limited, and their shares could not be extended, and he contended that under those circumstances more encouragement was due to the British agriculturist. He might mention one or two subjects to illustrate his meaning, and first there was the importation of foreign disease among cattle. They had had almost unlimited free trade in foreign diseases, and agriculture had suffered great losses by the introduction of foreign diseases into this country. He thought they had a right to complain on that head therefore. He would also ask whether the Government had given any encouragement as to the removal of the abominable duty on malt, and whether with regard to this new project of local taxation they were to be jeered at by hangers-on of the Government that if they expected to get rid of their present heavy taxation they would be wonderfully deceived. A member of the House of Commons said the other day that if the agriculturists thought of getting rid of any part of the burden laid on their shoulders they would be deceived, because nothing would be done to militate against the trade of the country. After one or two further observations, he said he regretted this subject had not been thoroughly discussed.

The CHAIRMAN said the question was brought on at Mansfield, but was not discussed owing to the limited attendance.

Mr. HEMSLEY said he did not wish to make a motion without going fully into the question.

Mr. COLTON believed the matter, of unexhausted improvement was really one of Tenant-Right. As the Tenant-Right in Notts was in a very satisfactory state they could not improve it by discussing it. Those counties in which the Tenant-Right was bad should discuss the matter.

Mr. BEARDALL said as the farmers in this county were satisfied, he did not see why they should call for any legislation.

Mr. GILBERT said it was a question between landlords and tenants on some matters, but on others it was not. There were a number of matters which the farmer left without getting the slightest compensation. The question was—and he wrote upon the subject to Mr. Barrow many years ago—whether they could get a system adopted whereby they could get compensated for unexhausted improvement which did not come under tenant-right.

Mr. COLTON said there were few cases where a man would lay out capital to any amount without entering into some agreement with his landlord.

Mr. J. PARR thought there ought to be some broad principle laid down. Tenants who had private means of their own would take a pride in getting their farms into good order if they knew that their repairs and alterations would be allowed, and it would be to their own interest, their landlord's interest, and their country's interest to do so.

Mr. BEARDALL said the questions of permanent improvements were not questions for the tenant, who had to do with the cultivation of the soil.

Mr. ALLSEBROOK (Wollaton) supported the view taken by Mr. Hemsley, that the question might be discussed with advantage. A resolution on the subject would come with a better grace from a county which had no interest in the matter. They were discussing a matter which affected the whole country and not one county in particular. No doubt these subjects were often arranged between landlord and tenant, but not always, he thought, to the satisfaction of all parties, and as they all hoped to avoid a land law, they should endeavour to secure a settlement of these difficulties on a footing which would be satisfactory and beneficial to the whole country.

The CHAIRMAN thought the discussion had done good rather than harm, because it had shown how satisfied the Notts. farmers were.

Mr. HEMSLEY: I hope the subject will not be lost sight of,

HORACE GREELEY'S AGRICULTURAL EXPERIENCES.

(The following history has been compiled here and there from

What I Know of Farming.)

I came to New York when not quite of age, with a good constitution, a fair common-school education, good health, good habits, and a pretty fair trade (that of printer). I think my outfit for a campaign against adverse fortune was decidedly better than the average; yet ten long years elapsed before it was settled that I could remain here and make any decided headway. Meantime, I drank no liquors, used no tobacco, attended no balls or other expensive entertainments, worked hard and long whenever I could find work to do, lost less than a month altogether by sickness, and did very little in the way of helping others. I judge that quite as many did worse than I as did better; and that, of the young lawyers and doctors who try to establish themselves here in their professions, quite as many earn less as earn more than their bare board during the first ten years of their struggle. John Jacob Astor, near the close of a long, diligent, prosperous career, wherein he amassed a large fortune, is said to have remarked that, if he were to begin life again, and had to choose between making his first thousand dollars with nothing to start on, or with that thousand making all that he had actually accumulated, he would deem the latter the easier task. Depend upon it, young men, it is and must be hard work to earn honestly your first thousand dollars. The burglar, the forger, the blackleg (whether he play with cards, with dice, or with stocks), may seem to have a quick and easy way of making a thousand dollars; but whoever makes that sum honestly, with nothing but his own capacities and energies as capital, does a very good five-year's work, and may deem himself fortunate if he finishes it so soon. I have known men do better, even at farming. I recollect one who, with no capital but a good wife and four or five hundred dollars, bought (near Boston) a farm of two hundred mainly rough acres, for 2,500 dollars, and paid for it out of its products within the next five years, during which he had nearly doubled its value. I lost sight of him then; but I have not a doubt that, if he lived fifteen years longer and had no very bad luck, he was worth, as the net result of twenty years' effort, at least 100,000 dols. But this man would rise at four o'clock of a winter morning, harness his span of horses and hitch them to his large market-wagon (loaded over-night), drive ten miles into Boston, unload and load back again, be home at fair breakfast-time, and, hastily swallowing his meal, be fresh as a daisy for his day's work, in which he would lead his hired men, keeping them clear of the least danger of falling asleep. Such men are rare, but they still exist, proving scarcely anything impossible to an indomitable will. I would not advise anyone to work so unmercifully; I seek only to enforce the truth that great achievements are within the reach of whoever will pay their price. An energetic farmer bought, some twenty-five years ago, a large grazing farm in Northern Vermont, consisting of some 150 acres, and costing him about 3,000 dols. He had a small stock of cattle, which was all his land would carry; but he resolved to increase that stock by at least ten per cent. per annum, and to so improve his land by cultivation, fertilizing, clover, &c., that it would amply carry that increase. Fifteen years later he sold out farm and stock for 45,000 dols., and migrated to the West. I did not understand that he was a specially hard worker, but only a good manager, who kept his eyes wide open, let nothing go to waste, and steadily devoted his energies and means to the improvement of his stock and his farm. When my father was over sixty years old, and had lived some twenty years in Erie County, Pennsylvania, he said to me: "I have several times removed, and always toward the West; I shall never remove again; but, were I to do so, it would be toward the East. Experience has taught me that the advantages of every section are counterbalanced by disadvantages, and that, where any crop is easily produced, there it sells low, and sometimes it cannot be sold at all. I shall live and die right here; but, were I to remove again, it would not

be toward the West." This is but one side of a truth, and I give it for whatever it may be worth. Had my father plunged into the primitive forest in his twenty-fifth rather than his forty-fifth year, he would doubtless have become more reconciled to pioneer life than he ever did. I would advise no one over forty years of age to undertake, with scanty means, to dig a farm out of the dense forest, where great trees must be cut down and cut up, rolled into log-heaps, and burned to ashes where they grew. When I was ten years old, my father took a job of clearing off the mainly fallen and partially rotten timber—largely white pine and black ash—from fifty acres of level and then swampy land; and he and his two boys gave most of the two ensuing years (1821-2) to the rugged task. When it was finished, I—a boy of twelve years—could have taken just such a tract of half-burned primitive forest as that was when we took hold of it, and cleared it by an expenditure of seventy to eighty per cent. of the labour we actually bestowed upon that. I had learned, in clearing this, how to economize labour in any future undertaking of the kind; and so everyone learns by experience who steadily observes and reflects. He must have been a very good farmer at the start, or a very poor one afterward, who cannot grow a thousand bushels of grain much cheaper at thirty years of age than he could at twenty. To every young man who has had no farming experience, or very little, yet who means to make farming his vocation, I say, Hire out for the coming year to the very best farmer who will give you anything like the value of your labour. Descended from several generations of timber-cutters (for my paternal ancestors came to America in 1640), and myself engaged for three years in land-clearing, I realise that trees exist for use rather than for ornament, and have no more scruple as to cutting timber in a forest than as to cutting grass in a meadow. Utility is the reason and end of all vegetable growth, of a hickory's no less than a cornstalk's. I have always considered "Woodman, spare that tree," just about the most mawkish bit of badly-versified prose in our language, and never could guess how it should touch the sensibilities of anyone. We have pretty well outgrown the folly of letting every apple-tree bear such fruit as it will; though in the orchard of my father's little farm at Amherst, N. H., whereon I was born, no tree had ever been grafted when I bade adieu to it in 1820; and I presume none has been to this day. My farm is in the township of Newcastle, Westchester County, N. Y., 35 miles from our City Hall, and a little eastward of the hamlet known as Chappaqua, called into existence by a station on the Harlem railroad. It embraces the south-easterly half of the marsh which the railroad here traverses from south to north—my part measuring some fifteen acres, with five acres more of slightly elevated dry land between it and the foot of the rather rugged hill which rises thence on the east and on the south, and on which I now own some fifty acres, lying wholly eastward of my low land, and in good part covered with forest. Of this, I bought more than half in 1853, and the residue from time to time in bits as I could afford it. The average cost was between 130 dols. and 140 dols. per acre; one small and poor old cottage being the only building I found on the tract, which consisted of the ragged edges of two adjacent farms, between the western portions of which mine is now interposed, while they still adjoin each other beyond the north and south road, half-a-mile from the railroad, on which their buildings are located and which forms my eastern boundary. My stony, gravely upland mainly slopes to the west; but two acres on my east line incline toward the road which bounds me in that direction, while two more on my south-east corner descend to the little brook which, entering at that corner, keeps irregularly near my south line, until it emerges, swelled by a smaller runnel that enters my lowland from the north and traverses it to meet and pass off with the larger brooklet aforesaid. I have done some draining, to no great purpose, on the more level portions of my upland; but my lowland has challenged my best efforts in this line, and I shall here explain them, for the encouragement and possible guidance of novices in draining. Let me speak first of my difficulties. This marsh or bog consisted, when I first

grappled with it, of some thirty acres, whereof I then owned less than a third. To drain it to advantage one person should own it all, or the different owners should co-operate; but I had to go it alone, with no other aid than a freely-accorded privilege of straightening as well as deepening the brook which wound its way through the dryer meadow just below me, forming here the boundary of two adjacent farms. I spent 100 dols. on this job, which is still imperfect; but the first decided fall in the stream occurs nearly a mile below me; and you tire easily of doing at your own cost work which benefits several others as much as yourself. My drainage will never be perfect till this brook, with that far larger one in which it is merged sixty rods below me, shall have been sunk three or four feet, at a further expense of at least 500 dollars. This bog or swamp, when I first bought into it, was mainly dedicated to the use of frogs, muskrats, and snapping-turtles. A few small water-elms and soft maples grew upon it, with swamp alder partly fringing the western base of the hill east of it, where the rocks which had through thousands of years rolled from the hill, thickly covered the surface, with springs bubbling up around and among them. Decaying stumps and embedded fragments of trees argued that timber formerly covered this marsh as well as the encircling hills. A tall, dense growth of blackberry briars, thoroughwort, and all manner of marsh-weeds and grasses, covered the centre of the swamp each summer; but my original portion of it, being too wet for these, was mainly addicted to hassocks or tussocks of wiry, worthless grass; their matted roots rising in hard bunches a few inches above the soft, bare, encircling mud. The bog ranged in depth from a few inches to five or six feet, and was composed of black, peaty, vegetable mould, diversified by occasional streaks of clay or sand, all resting on a substratum of hard coarse gravel, out of which two or three springs bubbled up, in addition to the half-a-dozen which poured in from the east, and a tiny rivulet which (except in a very dry hot time) added the tribute of three or four more, which sprang from the base of a higher shelf of the hill near the middle of what is now my farm. Add to these that the brook which brawled and foamed down my hill-side near my south line as aforesaid, had brought along an immensity of pebbles and gravel of which it had mainly formed my five acres of dryer lowland, had thus built up a pretty swale, whereon it had the bad habit of filling up one channel and then cutting another, more devious and eccentric, if possible, than any of its predecessors—and you have some idea of the obstacles I encountered and resolved to overcome. One of my first substantial improvements was the cutting of a straight channel for this current and, by walling it with large stones, compelling the brook to respect necessary limitations. It was not my fault that some of those stones were set nearly upright, so as to veneer the brook rather than thoroughly constrain it; hence some of the stones, undermined by strong currents, were pitched forward into the brook by high spring freshets, so as to require resetting more carefully. This was a mistake, but not one of my blunders. These, the natural results of inexperience and haste, were very grave. Not only had I no real experience in draining when I began but I could hire no foreman who knew much more of it than I did. I ought to have begun by securing an ample and sure fall where the water left my land, and next cut down the brooklet or open ditch into which I intended to drain to the lowest practicable point—so low, at least, that no drain running into it should ever be troubled with backwater. Nothing can be more useless than a drain in which water stagnates, choking it with mud. Then I should have bought hundreds of Hemlock or other cheap boards, slit them to a width of four or five inches, and, having opened the needed drains, laid these in the bottom and the tile thereupon, taking care to *break joint*, by covering the meeting ends of two boards with the middle of a tile. Laying tile in the soft mud of a bog, with nothing beneath to prevent their sinking, is simply throwing away labour and money. I cannot wonder that tile draining seems to many a humbug, seeing that so many tiles are laid so that they can never do any good. Having, by successive purchases, become owner of fully half of this swamp, and by repeated blunders discovered that making stone drains in a bog, while it is a capital mode of getting rid of the stone, is no way at all to dry the soil, I closed my series of experiments two years since by carefully relaying my generally useless tile on good strips of board, sinking them just as deep as I could persuade the water to run off freely, and instead of allowing

them to discharge into a brooklet or open ditch, connecting each with a covered main of four to six-inch tile; these mains discharging into the running brook which drains all my farm and three or four of those above it just where it runs swiftly off from my land. If a thaw or heavy rain swells the brook (as it sometimes will) so that it rises above my outlet aforesaid, the strong current formed by the concentration of the clear contents of so many drains will not allow the muddy water of the brook to back into it so many as three feet at most; and any mud or sediment that may be deposited there will be swept out clean whenever the brook shall have fallen to the drainage level. For this and similar excellent devices I am indebted to the capital engineering and thorough execution of Messrs. Chickering and Gall, whose work on my place has seldom required mending, and never called for reconstruction. I judge that there are not many tracts more difficult to drain than mine was, considering all the circumstances, except those which are frequently flowed by tides or the waters of some lake or river. Had I owned the entire swamp, or had there been a fall in the brook just below me, had I had any prior experience in draining, or had others equally interested co-operated in the good work, my task would have been comparatively light. As it was, I made mistakes which increased the cost and postponed the success of my efforts; but this is at length complete. I had seven acres of Indiancorn, one of corn fodder, two of oats, and seven or eight acres of grass, on my lowland in 1869; and, though the spring months were quite rainy, and the latter part of summer rather dry, my crops were all good. I did not see better in Westchester County; and I shall be quite content with as good hereafter. Of my seven hundred bushels of corn (ears) I judge that two-thirds would be accounted fit for seed anywhere; my grass was cut twice, and yielded one large crop and another heavier than the average first crop throughout our state. My drainage will require some care henceforth, but the fifteen acres I have reclaimed from utter uselessness and obstructions are decidedly the best part of my farm. Uplands may be exhausted, these never can be. The experience of another season (1870) of protracted drouth has fully justified my most sanguine expectations. I had this year four acres of corn, and as many of oats, on my swamp, with the residue in grass; and they were all good. I estimate my first hay-crop at over two and a-half tons per acre, while the rowen or aftermath barely exceeded half a ton per acre, because of the severity of the drouth, which began in July and lasted till October. My oats were good, but not remarkably so; and I had 810 bushels of sound ripe corn from four acres of drained swamp and two and a-half of upland. I estimate my upland corn at seventy (shelled) bushels, and my lowland at fifty-five (shelled) bushels per acre. Others, doubtless, had more, despite the unpropitious season; but my crop was a fair one, and I am content with it. My upland corn was heavily manured; my lowland but moderately. There are many to tell you how much I lose by my farming; I only say that, as yet, no one else has lost a farthing by it, and I do not complain. I had sped across Europe to Venice, and noted with interest the admirable, effective irrigation of the great plain of Lombardy, before I could call any land my own. I saw there a region perhaps thirty miles wide by one hundred and fifty along the east bank of the Po, rising very gently thence to the foot of the Austrian Alps, which Providence seems to have specially adapted to be improved by irrigation. The torrents of melted snow which in Spring leap and foam adown the southern face of the Alps, bringing with them the finer particles of soil, are suddenly arrested and form lakes (Garda, Maggiore, Como, etc.) just as they emerge upon the plain. These lakes, slowly rising, often overflow their banks, with those of the small rivers that bear their waters westward to the Po; and this overflow was a natural source of abiding fertility. To dam these outlets, and thus control their currents, was a very simple and obvious device of long ago, and was probably begun by a very few individuals (if by more than one) whose success excited emulation, until the present extensive and costly system of irrigating dams and canals was gradually developed. When I traversed Lombardy in July, 1851, the beds of streams naturally as large as the Pemigewasset, Battenkill, Canada Creek, or Humboldt, were utterly dry; the water which would naturally have flowed therein being wholly transferred to an irrigating canal (or to canals) often two or three miles distant. The reservoirs thus created were filled in spring, when the streams were fullest and

their water richest, and gradually drawn upon throughout the later growing season to cover the carefully-levelled and graded fields on either side to the depth of an inch or two at a time. If any failed to be soon absorbed by the soil, it was drawn off as here superfluous, and added to the current employed to moisten and fertilize the field next below it; and so field after field was refreshed and enriched, to the husbandman's satisfaction and profit. It may be that the rich glades of English Lancashire bear heavier average crops; but those of Lombardy are rarely excelled on the globe. Why should not our Atlantic slope have its Lombardy? Utah, Nevada, and California, exhibit raw, crude suggestions of such a system; but why should the irrigation of the New World be confined to regions where it is indispensable, when that of the Old is not? I know no good reason whatever for leaving an American field unirrigated where water to flow it at will can be had at moderate cost. When I first bought land (1853) I fully purposed to provide for irrigating my nearly level acres at will, and I constructed two dams across my upland stream with that view; but they were so badly planned, that they went off in the flood caused by a tremendous rain the next spring; and, though I rebuilt one of them, I submitted to a miscalculation which provided for taking the water, by means of a syphon, out of the pond at the top and over the bank that rose fifteen or twenty feet above the surface of the water. Of course air would work into the pipe after it had carried a stream unexceptionably for two or three days, and then the water would run no longer. Had I taken it from the bottom of my pond through my dam, it would have run for ever (or so long as there was water covering its inlet in the pond); but bad engineering flung me, and I have never since had the heart (or the means) to revise and correct its errors. My next attempt was on a much humbler scale, and I engineered it myself. Toward the north end of my farm, the hill-side which rises east of my lowland is broken by a swale or terrace, which gives me three or four acres of tolerably level upland, along the upper edge of which five or six springs, which never wholly fail, burst from the rocks above and unite to form a petty runnel, which dries up in very hot or dry weather, but which usually preserved a tiny stream to be lost in the swamp below. North of the gully cut down the lower hill-side by this streamlet, the hill-side of some three acres is quite steep, still partially wooded and wholly devoted to pasturage. Making a petty dam across this runnel at the top of the lower acclivity, I turned the stream aside, so that it should henceforth run along the crest of this lower hill, falling off gradually so as to secure a free current, and losing its contents at intervals through variable depressions in its lower bank. Dam and artificial water-course together cost me 90 dollars, which was about twice what it should have been. That rude and petty contrivance has now been ten years in operation, and may have cost 5 dollars per annum for oversight and repairs. Its effect has been to double the grass grown on the two acres it constantly irrigates, for which I paid 280 dollars, or more than thrice the cost of my irrigation. But more; my hill-side, while it was well-grassed in spring, always gave out the first dry or hot week; so that when I most needed feed, it afforded none; its herbage being parched up and dead, and thus remaining till refreshed by generous rains. I judge, therefore, that my irrigation has more than doubled the product of those two acres, and that these are likely to lose nothing in yield or value so long as that petty irrigating ditch shall be maintained. I know this is small business. But suppose each of the hundred thousand New-England farms, whereof five to ten acres might be thus irrigated at a cost not exceeding \$100 dollars per farm, had been similarly prepared to flow those acres last spring and early summer, with an average increase therefrom of barely one ton of hay (or its equivalent in pasturage) per acre. The 500,000 tons of hay thus realized would have saved 200,000 head of cattle from being sent to the butcher while too thin for good beef, while everyone of them was required for further use, and will have to be replaced at a heavy cost. Shall not these things be considered? Shall not all who can do so at moderate cost resolve to test on their own farms the advantages and benefits that may be secured by irrigation? I took a run through Virginia last summer, not far from the 1st of August. That State was then suffering intensely from drouth, as she continued to do for some weeks thereafter. I am quite sure that I saw on her thirsty plains and hillsides not less than three hundred thousand acres planted with Indiancorn, whereof the

average product could not exceed ten bushels per acre, while most of it would fall far below that yield, and there were thousands of acres that would not produce one sound ear! Everyone deplored the failure, correctly attributing it to the prevailing drouth. And yet I passed hundreds if not thousands of places where a very moderate outlay would have sufficed to dam a stream or brooklet issuing from between two spurs of the Blue Ridge, or the Alleghenies, so that a refreshing current of the copious and fertilizing floods of winter and spring, warmed by the fervid suns of June and July, could have been led over broad fields lying below, so as to vanquish drouth and insure generous harvests. Nay, I feel confident that I could in many places have constructed rude works in a week, after that drouth began to be felt, that would have saved and made the corn on at least a portion of the planted acres through which the now shrunken brooks danced and laughed idly down to the larger streams in the wider and equally thirsty valleys. Of course I know this would have been imperfect irrigation—a mere stop-gap—that the cold spring-water of a parched summer cannot fertilize as the hill-wash of winter and spring, if thriftily garnered and warmed through and through for sultry weeks, would do; yet I believe that very many farmers might even then have secured partial crops by such irrigation as was still possible had they, even at the eleventh hour, done their best to retrieve the errors of the past. I first farmed for myself in 1845 on a plat of eight acres, in what was then the open country skirting the East River nearly abreast the lower point of Blackwell's Island, near Fiftieth-street, on a little indentation of the shore known as Turtle Bay. None of the Avenues east of Third was then opened above Thirtieth-street; and the neighbourhood, though now perforated by streets and covered with houses, was as rural and secluded as heart could wish. One fine spring morning a neighbour called and offered to plough for 5 dollars. My acre of tillage not cut up by rows of box and other wood, and I told him to go ahead. I came home next evening just as he was finishing the job, which I contemplated most ruefully. His plough was a pocket edition; his team a single horse; his furrows at most five inches deep. I paid him, but told him plainly that I would rather have given the money for nothing. He insisted that he had ploughed for me as he ploughed for others all around me. "I will tell you," I rejoined, "exactly how this will work. Throughout the spring and early summer we shall have frequent rains and moderate heat: thus far, my crops will do well. But then will come hot weeks, with little or no rain; and they will dry up this shallow soil and everything planted thereon." The result signally justified my prediction. We had frequent rains and cloudy mild weather till the 1st of July, when the clouds vanished, the sun came out intensely hot, and we had scarcely a sprinkle till the 1st of September, by which time my corn and potatoes had about given up the ghost. Like the seed which fell on stony ground in the Parable of the Sower, that which I had planted had withered away because "there was no root;" and my prospect for a harvest was utterly blighted, where, with twelve inches of loose, fertile, well-pulverized earth at their roots, my crops would have been at least respectable. When I became once more a farmer in a small way on my present place, I had not forgotten the lesson, and I tried to have ploughed deeply and thoroughly so much land as I had ploughed at all. My first summer here (1853) was a very dry one, and crops failed in consequence around me and all over the country; yet mine were at least fair, and I was largely indebted for them to relatively deep ploughing. I have since suffered from frost (on my low land), from the rotting of seed in the ground, from the ravages of insects, etc.; but never by drouth, and I am entirely confident that deep ploughing has done me excellent service. My only trouble has been to get it done, for there are apt to be reasons (haste, lateness in the season, etc.) for ploughing shallowly for "just this time," with full intent to do henceforth better. I have two bits of warm gravelly hill-side, which bountifully yield corn, wheat and oats, but which are addicted to washing. I presume one of these bits, at the south-east corner of my farm, has been ploughed and planted not less than one hundred times, and that at least half the fertilizers applied to it have been washed into the brook, and hence into the Hudson. To say that 1,000 dollars have thus been squandered on that patch of ground would be to keep far within the truth. And, along with the fertilizers, a large portion of the finer and better elements of the original soil have thus been swept into the brook, and so lavished upon the

waters of our bay. But since I had those lots thoroughly subsoiled, all the water that falls upon them when in tillage sinks into the soil, and remains there until drained away by filtration or evaporation; and I never saw a particle of soil washed from either save once, when a thaw of one or two inches on the surface, leaving the ground solidly frozen beneath, being quickly followed by pouring rain, washed away a few bushels of the loosened and sodden surface, proving that the law by virtue of which these fields were formerly denuded while in cultivation is still active, and that deep ploughing is an effective and all but unfailing antidote for the evil it tends to incite. I have used guano frequently, and, though it has generally made its mark, I never yet felt sure that it returned me a profit over its cost. Phosphates have done better, especially where applied to corn in the hill, either at the time of planting or later; yet my strong impression is that flour of bone, applied broadcast and freely, especially when wheat or oats are sown on a field that is to be laid down to grass, pays better and more surely than anything else I order from the city, Gypsum, and possibly Oyster-Shell Lime excepted. My experience can be no safe guide for others, since it is not proved that the anterior condition and needs of their soils are precisely like those of mine. Ten or twelve years ago I bought a pound or more of locust-seed rather late in the spring, scalded it by plunging for a moment the little cotton bag which held it into a pot of boiling water, and letting the seed steep and steam in the bag till next morning, when the seed was planted in rows in a newly broken bit of poor old pasture land. This was a mistake; I should have given that seed the richest available spot in my garden, to say nothing of planting it as early as April 20th. My locusts came up slowly and grew feebly that year, not to speak of the many seeds that did not sprout at all. Still many came up and survived, and my place is this day the richer for them. My upland has a gravelly rocky soil, not natural to grass, and had been pastured to death for at least a century before I bought it; yet it has yielded me an average of not less than $2\frac{1}{2}$ tons to the acre for the last sixteen years, and will not yield less while I am allowed to farm it. My lowland (bog when I bought it) is bound henceforth to yield more; but, while imperfectly or not at all drained, it was of course a poor reliance—yielding bounteously in spots, in others little or nothing. In nothing else is shiftless, slovenly farming so apt to betray itself as in the culture of grass. Fifty years ago I judge that the greater part of the hay made in New-England was cut from "sour boggy land, that was devoted to grass simply because nothing else could be done with it. I have helped to carry the crop off on poles from considerable tracts on which oxen could not venture without miring. It were superfluous to add that no well-bred animal would eat such stuff, unless the choice were between it and absolute starvation. In my boyhood I hoed Indiancorn diligently for weeks at a time, drawing the earth from between the rows up about the stalks to a depth of three or four inches; thus forming hills which the West has since taught me to be of no use, but rather a detrimental embarrassing the efforts of the growing hungry plants to throw out their roots extensively in every direction,

and subjecting them to needless injury from drouth. I am thoroughly convinced that corn, properly planted, will, like wheat and all other grains, root itself just deep enough in the ground, and that to keep down all weeds and leave the surface of the cornfield open, mellow and perfectly flat, is the best as well as the cheapest way to cultivate corn. I have built some stone walls—at first, not very well; but for the last ten years my rule has been: Very little fence on a farm, but that little of a kind that asks no forbearance of the wildest bull that ever wore a horn. The last wall I built cost me at least 5 dols. per rod; and it is worth the money. Beginning by ploughing its bed and turning the two furrows together, so as to raise the ground a foot and make a shallow ditch on either side, I built a wall thereon which will outlast my younger child. An ordinary wall dividing a wood on the north from an open field of sunny gravelly loam on the south, would have been partly thrown down and wholly twisted out of shape in a few years by the thawing of the earth under its sunny side, while it remained firm as a rock on the north; but the ground is always dry under my entire wall; so nothing freezes there, and there is consequently nothing to thaw and let down my wall. I shall be sorely disappointed if that wall does not outlast my memory, and be known as a thorough barrier to roving cattle long after the name of its original owner shall have been forgotten. I must have attended not less than fifty State or County Fairs for the exhibition (mainly) of Agricultural Machines and Products. From all these, I *should* have learned something, and presume I did; but I cannot now say what. Hence, I conclude that these fairs are not what they might and should be. In other words, they should be improved. I have been having much ploughing done this fall in my orchards, for what I presume to be the good of the trees; on my drained swamp, because it is not yet fully subdued and sweetened, and I judge that the winter's freezing and thawing will aid to bring it into condition. And then my swamp lies so low and absolutely flat that the thaws and rains of spring render ploughing it in season for oats, or any other crop that requires early seeding, a matter of doubt and difficulty. All the land I now cultivate, or seek to cultivate, has already been well ploughed more than once; no stump or stone impedes progress in the tracts I have ploughed this fall; yet a good plough, drawn by two strong yoke of oxen, rarely breaks up half an acre per day; and I estimate two acres per week about what has been averaged, at a cost of 18 dols. for the ploughman and driver; offsetting the oxen's labour against the work done by the men at the barn and elsewhere apart from ploughing. In other words, I am confident that my ploughing has cost me from first to last at least 10 dols. per acre, and would have cost still more if it had been done as thoroughly as it ought. I am quite aware that this is high—that sandy soils and dry loams are ploughed much cheaper; and that farmers who plough well (with whom I do not rank those who scratch the earth to a depth of four or five inches) do it at a much lower rate. Still, I estimate the average cost in this country of ploughing land twelve inches deep at 5 dols. per acre; and I am confident that it does not cost one cent. less.

THE CULTIVATION AND USE OF INDIAN CORN.

Maize (*Zea*), or Indian corn, is a tropical, or at least a southern plant, though we have no positive knowledge in regard to its original habitat, as we are not aware of its ever being found in a wild state. It is the only one of the cultivated grains that is of American origin. It was found in its present condition, in the possession of many Indian tribes, at the earliest period of their discovery by Europeans, and according to their traditions had been cultivated by them for unknown ages. Its value was soon recognised by the discoverers, and it has now become an important crop in climates suitable for it in all quarters of the world. As an article of food for man and beast (but especially the latter), it holds a pre-eminent rank, and perhaps the loss that would be sustained by the entire failure of this crop, on this continent, would scarce be exceeded by that of any other crop. Though generally believed to be an American plant, it has been alleged

to have been known before the discovery of America. In Chambers' Encyclopedia, article *Maize*, is the following statement: "A representation of the plant found in an ancient Chinese book in the Royal library in Paris, and the alleged discovery of some grains of it in the cellars of ancient houses in Athens, have led some to suppose that it is a native also of the East, and has from a very early period been cultivated there, and even that it is the "corn" of scripture; although on this supposition, it is not easy to account for the subsequent neglect of it until after the discovery of America, since which the spread of its cultivation in the Old World has taken place with a rapidity such as might be expected from its great productiveness and other valuable qualities." Columbus himself brought it to Spain about the year 1520. Probably, like the potato and tobacco, it is a native of America, though it is now in general cultivation in the South

of Europe, and supplies a principal part of the food of the inhabitants of many countries of Asia and Africa. It is by far the most productive of all the cereals, in the most favourable situations yielding an increase of eight hundred for one, whilst an increase of three hundred and fifty to four hundred for one is common where irrigation is practised, and even without this the yield is large. There is hardly any crop respecting which farmers differ as widely as they do in the management of Indian corn. They differ about the season of the year when the ground ought to be ploughed for it; in the depth it ought to be ploughed; about the time of planting; about the manner, whether hills or drills; about the distance apart that the plants ought to be left; about whether the seed ought to be soaked or planted dry; about the after-culture of the corn, some using only the hoe, some the hoe and cultivator, others the shovel or some other plough; some hill up the plants well, others keeping the ground as level as possible. They differ also about the time and mode of harvesting. What has been written about the history, culture, and value of maize would fill volumes. Some farmers (though few, if any, in Canada do so) grow this for their principal crop, the crop upon which they place most dependence; others grow it rather as a fallow crop, and look for the profit to be derived from the following crops, rather than any direct profit that is got from the corn itself. It is to this latter class that the writer belongs. From being near the northern limit where corn can be grown with success, and probably also from peas being a more favourite crop with out farmers, Indian corn has never been very largely grown in Ontario; probably its growth might be profitably increased. Though it is certainly a cereal, it can be grown and managed in the same manner as a root or fallow crop. The ground can be manured, and cleaned with this crop, and if properly attended to, it will leave the ground in good condition for a crop of spring wheat, barley, or oats. It might well occupy the place with us that the horse bean does in British agriculture, and be principally used for the same purpose—the feeding and fattening of stock. When well secured, the stalks from an acre of good corn, are nearly as valuable as an acre of hay. It is a crop that requires a great amount of labour, but what valuable crop does not require labour? The conditions most favourable to the growth of corn, are a deep, rich, and rather light soil, with a hot and moderately moist atmosphere; with these it grows the largest, best, and most profitable crops. Still it will grow on almost any soil, from the lightest sand to the heaviest clay, among granite rocks, and on the richest bottoms. In preparing land for Indian corn, prepare as for a root crop. Plough stubble ground in the fall, and if you have it to spare, give the land a good coat of manure, and plough it well under, water furrowing if necessary, so that as little water as possible may lie on the ground during winter or spring. On the opening of the spring, as soon as the ground has become sufficiently dry, and time can be found to do the work, thoroughly cross-plough and harrow it; should the land now prove fine, mellow, and pretty clean, no further preparation will be required; but as fine tilth is essential, should the land be rough or cloddy, it should be made fine by repeated rolling, harrowing, and cultivating; and should it be weedy, another ploughing before planting may be necessary, and will be amply repaid by the more rapid growth of the young corn plants, and the greater care of the after cultivation of the ground. The ground may be either marked out and planted in hills, in straight lines each way, or it may be sown in drills. For a number of years past, after the ground has got all the preparation needed, I have been in the habit of drilling the ground in good deep drills, fully three feet wide, putting in them a good coating of barnyard manure. No matter though the land has been manured in the fall, it can hardly be made too rich for corn—it is a gross feeder—spreading it well in the bottom of the drills, and covering it up as soon as possible with a good heavy furrow. I then plant the corn, with a planter, on the top of the drill, taking care to roll the drills well down, so that they are very little above the natural level of the ground. This plan I have found to answer very well, though in a very dry time the corn will sometimes be a little longer in coming up. In planting with the drill I use a one-horse roller, sufficiently long to cover two drills, the one we are planting, and the last one we have planted; thus pressing down the manure well, breaking all the clods, and leaving the whole fine and smooth. Should

the roller not be heavy enough to make the drill as level as it seems desirable at first, I roll them a second time, after planting, as I think it essential that they are well rolled down, weighing down the roller with some heavy article. The drill used is set to drop the corn nearly three feet apart, to drop from four to six grains in a hill, and to cover from one to two inches deep. If the weather is moist, shallow; if dry, we cover a little deeper. If pumpkins are wanted, they are planted afterwards. As soon as the corn is fairly above the ground, I give it a top-dressing of plaster or ashes, or plaster and ashes mixed, running at the same time the cultivator between the rows, as close to the young plants as possible, thus killing the young weeds that may be coming up; I then go over with the hand, killing the weeds between the hills. If the cultivating has been properly done, this can be done very rapidly, as there will be only a very narrow strip left to hoe. This past season my farm-hands hoed an acre a day the first time over. This process has to be repeated once, twice, or more times, as may be required to keep the weeds down, and the ground mellow, thinning out the plants to three or four in a hill, at the second hoeing. If time can be spared, the corn will grow all the better if run through with the cultivator once a week, until it becomes too large to work among. It is of great importance to keep the weeds from growing at all, but if they have got possession of the land they should be destroyed at all hazards, as every weed robs the ground of moisture; they are constantly absorbing from the soil water through their roots, and evaporating it through their leaves into the atmosphere. The weeds in many a field of potatoes (or corn) evaporate during our hot July weather 500 gallons of water per day per acre. I have sometimes set up corn with the plough, and then hilled with the hoe, but never saw any benefit from it, and think it best left level or very slightly hilled. When the land is mellow and clean I do not think hilling any benefit to the crop of corn. In harvesting corn we like to cut it up by the ground as soon as we can after the corn is fairly glazed. When cut rather early the corn will be fully as good, and the fodder much better, than if it is left till it is struck with frost. After cutting bind it in sheaves and set it up in shocks to cure, then draw to the barn, and husk when wanted or when convenient. As the fodder when thus got is valuable, care has to be taken so that it may not heat or mould, as it is very apt to do. It should be spread thin on barn poles, or set up around the floor, or in lofts or sheds; or if it has to be stacked up outside, set up three poles and build around them, then cover the top with some straw—the poles to thoroughly ventilate, and the straw to prevent the rain from getting in. The late Judge Buet, the first editor of the *Albany Cultivator*, was a great advocate for the growing of Indian corn. He used to say that it was as indispensable to a Yankee as the potato to an Irishman, or the oat to a Scotchman; that there was no crop more beneficial to the farmer than Indian corn; that it was the meat, meadow, and manure crop of the farm; that it was convertible into human food in more forms than any other grain, and that its value in fattening domestic animals was not exceeded by any other product of the farm. The method that he recommended for growing Indian corn was to take clover lea, cover it well with long manure from the barnyard, say twenty loads to the acre, well spread, well and neatly ploughed under just before planting, well harrowed lengthwise of the furrow, but not tear up the sod (the roller might precede the harrow with advantage), to plant about three feet by two-and-a-half feet apart, to apply double the quantity of seed that was wanted to stand, to be thinned out to three or four plants when hoeing, that it should be slightly hilled up, that it should not be ploughed among when growing, as that broke its roots, but that the harrow and cultivator should be used instead, that it should be cut up by the ground as soon as the grain became glazed, or hard on the outside. He estimated the expense of ploughing, harrowing, planting, two hoeings, harvesting, and rent, for an acre of corn, at about sixteen dollars per acre. Of the various special manures tried on corn, besides plaster, I have found bone dust, applied at the time of planting, the most beneficial. I have tried superphosphate of lime, but doubted if the increase of the crop repaid the cost. One experiment tried last season will not be repeated; when sowing turnip ground with salt and plaster mixed, having some left, I thought I would try some of it on the corn that was growing close by; so top-dressed two drills, and omitted two over a part of the field,

On coming to hoe the corn a morning or two after, I found the drills I had sown the mixture on looked just as if they had been struck with frost, some of the largest hills withered to the ground, and though they did somewhat recover, the drills thus dressed looked much behind the others all the rest of the season. The uses of Indian are very numerous; when very young we are told "the small young stalks of thickly sown crops are cut over by the Mexicans as an article for the desert, and almost every one relishes green corn in its season. Then there are various preparations of the grain, such as johnnycake, hominy, mush, samp, succatash, pop corn, &c.; and now it is largely used as a substitute for arrowroot, known in Britain as Oswego flour, and as corn starch. The use of the Indian corn plant for soiling cattle has long been known and recommended; a writer in the *Cultivator* of 1834, says that he had frequently adopted the expedient of sowing it for soiling, and also for winter fodder, when pasturage and meadow threatened to fail. It is now used largely for this purpose, and no plant answers better, or gives more feed to the acre than it does when properly manured and managed. Corn was at one time greatly recommended for making sugar, and many experiments were tried with it in the United States, but it evidently did not prove profitable, as for many years we have heard nothing of corn-stalk-sugar. This by the way was no new use for this plant, as Prescott, in his history of the conquest of Mexico, after noticing several of the most important articles of their husbandry, says that the great staple of the country, as indeed of the American continent, was maize or Indian corn, which grew freely along the valleys, and up the steep sides of the cordilleras to the high level of the table-land. The Aztecs were as curious in its preparation, and as well instructed in its manifold uses as the most expert New England housewife. Its gigantic stalks, in these equinoctial regions, afford a saccharine matter not found to the same extent in northern latitudes, and supplied the natives with *sugar* little inferior to the cane itself; which was not introduced among them till after the conquest in 1519. Indian corn is also largely used *or abused*, for distilling all over North America, and in South America it appears to have been made into *Chico* or maize beer at a very remote period—it was a common drink of the Indians long before the Spanish conquest. It was commonly made in a similar manner to ordinary beer. The liquor is said to be of a dark yellow colour with an agreeable slightly bitter acid taste; it is in universal demand on the west coast of South America, and is consumed in vast quantities by the Mountain Indians; scarcely a single hut in the interior is without its jar of these favourite liquors. Besides the use made of Indian corn as food and drink for man in its various preparations, it is largely used for feeding cattle and stock of all kind. In the western States, cattle and pigs are turned into the corn fields and there fatten for the market, thus saving all harvesting. With us it is used for feeding pigs, either whole or ground into meal, and also for feeding cattle when fattening during winter. It is excellent for feeding to milk cows during winter and spring, and is sometimes fed to horses; indeed all kinds of stock on a farm, horses, cattle, sheep, pigs, and poultry will

readily eat and seem fond of Indian corn. We hear of corn being sometimes used for fuel in the West, where wood and coal are scarce and dear and corn is cheap. In Illinois and other parts they used the corn cobs chiefly for summer fuel, when kept dry they make a useful fuel and ready summer fire, and are no bad substitute at that season for wood or coal. There are many varieties of Indian corn known, of which the most prominent are those distinguished by colour, as white, red, or brown and yellow; those that have different numbers of rows on the ear, as the 8, 10, 12, to 24-rowed kinds; those that differ in taste, as the sweet and common kinds; and those that have some peculiarities in their kernels, as our common kind—the horsetooth, gourd-seed, the rice-corn, &c., &c. There is no doubt that this plant can be much improved by selection and cultivation, and that varieties may be multiplied to almost any extent by judicious selection of kinds, and crossing by careful impregnation. Almost every corn-grower has his favourite kind; I have never found any kind do better here than the common eight-rowed yellow corn. Though corn is a tropical or sub-tropical plant, yet it is capable of being acclimated in almost any region up to almost the 50th degree of latitude on this continent, and is adapted in some of its varieties to almost any part of the country. Being a short-lived annual it will succeed wherever the heat of summer is intense and of sufficient duration, whatever may be the cold of winter. The corn crop must have been of immense benefit to the early settlers of this country. It succeeds well on new-cleared land; it requires little cultivation there; it gives a large increase for the seed planted; it requires a short season to mature, and could be used for food before it came to maturity. It is no wonder that this was a favourite crop; even yet there is said to be more land devoted to the production of Indian corn in the United States than to any other grain; and on the whole earth, Schow states that rice, maize, and wheat are the most extensively cultivated grains, and that rice supports the greatest number of the human race, but that maize has the greatest range of temperature. The quantities of Indian corn grown in North America alone are immense. The total produce of this grain in the United States by the census of 1840 was returned at 377,581,875; by that of 1850, at 592,071,104; and by that of 1860, at 838,792,740; and no doubt the census of 1870 shows a large increase. By the United States census of 1860, the average of the whole United States was 35 bushels per acre; the highest average of any State was 45 bushels per acre (Minnesota), and the lowest (Delaware) was 20 bushels per acre. In Upper Canada, by a census of 1847, the number of bushels of Indian corn was returned at 1,137,555, an average of about 21 per acre; in 1850 it was given at 1,688,850 bushels, at an average of 23½ bushels per acre; and by the census of 1861, there were raised 2,256,290 bushels, at about the average of 28¼ bushels per acre. In this county (Northumberland) the number of bushels of Indian corn in 1861 was returned 64,118, being an average of 27 bushels per acre; and in this township (Hamilton) there were returned 11,726 bushels, an average of 28½ bushels per acre.—W. R., in *The Weekly Globe*.

AFTER-DINNER TABLE TALK.

At Derby LORD GEORGE MANNERS, M.P., said it was not improbable that the magistrates would be called upon to exercise their powers with reference to the cattle plague, which had re-appeared in the country. He was of opinion, and had been for years, that the only safe way of preventing a recurrence of this outbreak was by the prohibition of the importation of live cattle altogether. He believed he was the first man who publicly advocated that policy; that was in 1863, three years before the last outbreak of cattle plague, and although he would be the last man to attempt to institute any undue interference with the trade of the country, yet he was in favour of the policy he had referred to, for if the cattle plague and the foot-and-mouth disease were imported they were the cause of raising the prices of meat, and of diminishing the amount for consumption more than the amount of meat imported acted in a contrary direction. But if importa-

tion of cattle was prohibited, there was no reason why there should not be an equal or a larger quantity of dead meat brought to this country. For several years past the average yearly importation of dead meat into London from Aberdeenshire had amounted to between 25,000 and 30,000 tons, and if that amount of wholesome meat could be slaughtered and sent a distance of 600 miles, what was there to prevent any amount of meat being sent into our ports from Ostend, Dunkirk, and other places. He believed if the importation of cattle was prevented that within two years they would have such a regular stream of foreign meat flowing into our ports as they little dreamt of. Again he asked if any one could estimate the loss which had occurred in the last ten years from the apprehension of this disease, and how many people it deterred from breeding cattle.

Mr. J. BROADHURST said, a great deal had been said about the

cheese factories being amateur farming, carried on at the expense of an association. Some assistance had certainly been rendered at the commencement of the undertaking, but that state of things no longer existed, as the cheese factories were now as self-supporting as any farm in the county. In order for them to judge for themselves, they should visit the factories. A short time since he saw a large room filled entirely with factory cheese, and although his own opinion might be worthless, he heard the factor who bought it say he expected to find some improvement this year, but he did not imagine that there would be so great an improvement as was then to be seen. He also stated that it was worth 10s. per cwt. more than home-made cheese. He was sure the farmers of Derbyshire were far too intelligent not to test the truth of this great, and to them, most important statement, and it was in order to call the attention of the farmers present to the necessity of seeing what had been done at the factories that he had made those few remarks.

The Duke of RUTLAND, the chairman, congratulated his hearers on the excellent show. He was sorry to say that he was not himself a practical farmer, but he had had the pleasure of walking through the show ground, and seeing the many excellent animals, and especially the hunters. But he could not help reflecting on a fact which he heard alluded to on all sides, viz., that there would have been a larger show but for the prevalence of the foot-and-mouth disease, and the prevalence of this disease also reminded them of the dread they were at present living under of the introduction of the cattle plague. This county was essentially a grazing county, and therefore, they, as farmers here, were more particularly interested in all that affected the well-being and health of their cattle, than perhaps the farmers of any other county in England. His noble brother (Lord George Manners) had already alluded to the importation of foreign cattle, to the importation of the cattle plague, and to the possible importation of the foot-and-mouth disease. Now, there had been certain meetings in various parts of England—and he was sorry to say that there had been meetings not only of gentlemen, but also of ladies—where very strong language had been used against “the selfishness” and “the hardness of heart” of those who would restrain the importation of foreign cattle. They had said that for their selfish ends, and for putting money into their pockets, advocates of this restriction wished to diminish the food of the people. This was a very grave charge, and he would quote some figures to attempt to prove its fallacy. The figures were the result of a calculation by a Mr. Thompson, residing near York—a gentleman who wrote in the *Royal Agricultural Journal*, volume 8, part 1st, and No. 15, and who in an article went fully into the question of the management of grass-land, and into the quantity of foreign beasts that had been imported, as well as into the quantity of home-bred animals. Mr. Thompson stated that the year of the largest importation was the year 1871, when there were imported 248,911 cattle, 167,797 sheep, and 55,622 pigs; and the whole quantity of beasts in the country was 9,347,789, of sheep 31,416,829, and of pigs 4,136,908; showing that our own cattle bore the proportion of 2.17 per cent. of the total importation of sheep, 1.89 per cent. of pigs, and 1.82 per cent. of the total importation, during the year that the imports were the greatest, and therefore, if by prohibiting the importation of foreign cattle, and by prohibiting the importation and the spread of foot-and-mouth disease, they could save two per cent. of their own cattle, they would save as much as the total imports of cattle. But the cattle that were imported were almost all slaughtered immediately, and became meat, whilst the home stock remained for breeding purposes, and was not slaughtered. What was the effect with regard to the meat? In 1871 (the year of the greatest importation) the total imports were 81,578 tons of meat, whereas the total of the home supply of meat that was brought to the butcher and sold by him was 1,266,478 tons, and the proportion of home supply was thus 87 per cent., the imported was 5 per cent., and the slaughtered meat imported was 6 per cent. of this total. The population of the country increased at the rate of about 252,463 per annum. There were thus that number of additional mouths to fill every year. The average consumption of meat per head per year was about 7 stones. In 1871 the supply from all sources was greater than in the year 1870 by 82,279 tons, or at the rate of 52 stones for each individual. That showed that the increase of meat had been much greater than the increase of population; yet at the same time the price of meat had greatly risen, showing

that the quantity consumed by each individual had greatly increased, and also betokening the prosperity of the country. What it was necessary to do then was to find meat not only for that large increase of population, but also for their increasing demands. And he believed that they who reared cattle in the grazing districts were quite able to find the amount of meat. Mr. Thompson said that there were 22,000,000 of acres in England, Scotland, and Ireland under grass, and that these 22,000,000, though in many cases exceptionally well farmed, are capable of the very greatest possible improvement. He mentioned this country as one where there was some of the best grass land that might be greatly improved; and his experience, after making various experiments, was that the manure that he found the best for the farm was a mixture of nitrogen, phosphoric acid, and potash. None of these taken separately would make good grass, but combined they would produce all that is required. Mr. Bright had referred to the landed interest in a very unfair manner, and he was anxious to take that opportunity of offering his opinion in opposition to Mr. Bright's, promising that no word would fall from him having either a party or a political tinge, or calculated to cause the slightest offence to his friends around him. Mr. Bright, in having a testimonial presented to him, might have been expected to have spoken with kindly feeling, but on that occasion he said that the sunshine and the storm fell equally upon the just and upon the unjust—alluding in the latter case to those who had supported protection to active industry some 30 years ago, and he said they had supported a wicked monopoly. He (the chairman) was not going to enter into the question of Protection and of Free-trade, but he did say that after that number of years, when the dust and the smoke of the battle had cleared away, and the sun and the storm shone through the clearer and serener atmosphere, the day had arrived when these accusations should not have been made. Boldly and frankly he affirmed that there were men who had supported protection of native industry, as patriotic as Mr. Bright himself, and he would mention one who alas had been removed from amongst them many years, Lord George Bentinck, who was actuated by as pure, by as high, by as noble, by as conscientious, and by as patriotic emotions and principles as those which actuated any statesman who had ever adorned the Legislature. When a neighbouring country—our nearest neighbour—was recovering from a great defeat, and had chosen a leading statesman under the wisdom of whose guidance she was returning, if not to Protection, at all events to fiscal duties; and whilst America—the *beast ideal* of Mr. Bright—had not relaxed one iota in her worship of Protection duties, he should have thought that common decency would have made Mr. Bright silent upon such a topic at such a time. He, however, hoped that Mr. Bright would soon be restored to his previous vigour, and, forgetting the battles of the past, would enter again into the fellowship and friendship of those who were willing to be his friends. They were all aware that Sir Massey Lopes had carried a resolution in the House of Commons by a majority of one hundred in favour of taking the burden of local taxation from real property. There were some hints that it would be taken off the owner and put upon the occupier. He hoped that no shuffling of the cards in this manner would be permitted. They all knew that in a few years there would be an increase of the rent, and the burden would remain just the same as at present. What was wanted was that the burden should be taken off, and he hoped that next year they would be met in a fair and an equitable spirit. The other question to which he wished to allude had been referred to by his noble brother—the labour question. This was a question of vital importance to them all. Happily, in this country, they hardly knew what it was, for their agricultural labourers were well paid, and there had therefore been no strike, but in other counties the labourers had formed themselves into unions and had been addressed by persons from a distance who knew nothing of their habits and their requirements, and who had endeavoured to raise, and had raised, he was sorry to say, in many cases, an ill-feeling between the employers and the employed. He hoped that that feeling might not extend. He felt that the labourer in many counties had not had that amount of wages that he ought to have received, and he had felt this for years, but he hoped that the evil would now be remedied, and that it would be remedied with a kindly and

good feeling. He hoped above all that employers would not consider the labourer a mere machine, to whom they were to give the least possible wages that he would take, and from whom they were to get the greatest possible amount of work. Nothing could be so unfortunate to the labourer, nothing he was sure could be so painful and so disagreeable to the employers themselves. He hoped that mutual good feeling would long exist between the employer and employed, and that if those who may have joined the Union, those who had been led away by agitators, but who had seen their folly, and had returned to their work, would in the coming winter—which he feared might be one of great trial to the labourer, with meat at such a high price, and fuel so expensive—it would be remembered that they had been led away, and that they would only be regarded with those feelings of kindness that had hitherto been shown to them, and that everything would be done to alleviate their sufferings. If it was sickness he hoped the employers would do what they could to help the suffering labourer, and that if the men were out of work they would do what they could to find them employment, and he was sure that in the end they would be saved many causes of unpleasantness by taking that kind and proper course.

Mr. ROWLAND SMITH said that at the present time farming was a matter of considerable difficulty. Whichever way they turned they seemed to meet with fresh grievances. There was, for instance, the foot-and-mouth disease, which was a great evil, and did not confine itself to cattle alone, but attacked much smaller animals; again there was the potato disease, and a threatened outbreak of the cattle plague. He cordially agreed with the remarks of the noble chairman upon that point, being of opinion that if live cattle were to be imported they would have to be slaughtered immediately after they were landed. Farmers had what might be termed the standard grievance of rates. He was told with regard to that question that there was a very general feeling amongst farmers that they ought to be represented in the management of the distribution of money which was collected in the shape of rates. He would be glad if they were, but he did not believe that such a course would be the means of decreasing the amount to be collected. The way to ease the rates was to extend the basis on which they were levied, and he was of opinion that the proposition of Sir Massey Lopes, which had been submitted to Parliament during the past session, was a most proper and just one. This motion, as they might remember, was to lay upon the Consolidated Fund all the expenses of the administration of justice, half the expenses of the police, and half the expenditure connected with pauper lunatics. To his mind the most pleasant incident in all the last session of Parliament was the very large majority (100) which Sir Massey Lopes obtained in favour of his motion, and after that expression of opinion on the part of the House of Commons, he thought it would not be long before some legislative enactment came into force upon the subject.

Mr. J. G. CROMPTON, referring to the vast increase of population, and to the increasing importance of the food question, pointed out how necessary was capital for supplying the food, and for making more numerous the products of the land. They could not expect gentlemen to embark their capital in carnal and fluctuating tenures. Whether it was by Tenant-Right, or by a liberal granting of leases that this capital was to be invoked, and to be entreated to come into important branches of trade, he thought there was one mode by which an increased amount of capital might be devoted to the soil of this country. It had been stated by Mr. Broadhurst that Derbyshire was a dairy district, and that it was to its cheese-making powers that we must all look. In the year 1870 the cheese of the Derbyshire cheese factories realised 10s. a cwt. above the average of the county at large. He did not say that the cheese was better, but it was a fact that the product of the factories ranged from 10s. to 12s. a cwt. above the average of other cheese in the county. In the following year at both the factories there was a similarly gratifying result. That at once brought capital to the land. Any society producing 200 tons of cheese would thus accumulate a sum of money equivalent to £2,000, which would go into the pockets of the tenant-farmers who made the cheese; therefore he maintained that here was a ready process, proved by experience to be sound, for increasing the capital of the farmer. From these 13 dairies every cow whose milk was sent to the factories in 1871 had realised £13 7s., to which must be added £3 for the milk during the

closing of the factory, and this made £16 7s. which was earned for each owner of a cow whose milk had been sent to the factories. He did not hesitate to say that in all probability the result would be more than doubled during the present year.

Mr. G. M. DIXON, expressed a belief that many farms in Derbyshire would be more remunerative if the owners turned their attention to feeding instead of dairying.

At Bradford, Mr. FORSTER, M.P., did not wonder that workmen of all classes were everywhere agitating for an increase of wages and a decrease of the hours of work. These questions were brought before us upon a greater scale than upon other nations because we produced more than we did formerly. There were more labourers, larger profits made, and he was convinced that there was not more bitterness between classes but less; not as much hatred as formerly but less, and a better understanding between master and man—more sympathy between employer and employed. There was no country in which profits had been so large as in this for the last two or three years. There were many labourers who said that we would never get on in England till we put our workmen in a condition to get as high wages, compared with the hours of labour, as the French and Germans. But he believed that wages were higher in this country than either of the others compared with the hours the men had to work, and there was no country in the world in which the hours of labour were so short. With regard to wages, in the agricultural districts it must be admitted that the farmers were not in so good a position to grant their labourers an advance of wages as some other employers, and although wages were lower in the agricultural districts than in the manufacturing ones, a farmer had also greater losses to sustain than others. There was another class—the landlords—connected with this matter. By education and position, and being generally in easy circumstances, they were able to, and he trusted would, mediate between both parties, and assist them in the settlement of their differences. Some of them were doing it at this moment in a way which ought to excite the admiration of all. He thought it would be one of their first duties in Parliament to take into account the obstacles which prevented some landlords from doing their duty by the amendment of the land laws.

At Highclere, Lord CARNARVON, the chairman, said it seemed to him there was no class less understood in the country than the labourers. He was generally painted in the most extravagant character, and if the subject was not a serious one he should say it was almost ludicrous. Those present were familiar with the English labourer, and he would ask what really was the condition of the English labourer? He thought if they would be fair they would admit that his condition, looking back upon the past, was in some few respects less good, but in other respects was much better than it formerly used to be. It was less good, he apprehended, in these points: he had probably less ground for his own purposes than he formerly had; the commons in a great measure had been enclosed; and whilst there had been with every other class in the country a large rise in wages there had not been a proportionate rise in the wages of the agricultural labourer; and lastly, he thought the poor-law, so far from assisting the labourer, had in some respects tended to aggravate the difficulties of his position, but on the other hand the cottages generally were better than they were. Greater attention was paid to the garden, and sanitary arrangements and articles of comfort were now within the reach of the labourer which were entirely out of his reach before. The law of settlement, again, was far easier than it used to be, and there was this further advantage, that the services of the good workman were universally recognised and appreciated. Therefore it was that he objected to outside agitators who knew nothing of the matter interfering to attempt to accomplish an object which could better be done without them. As an old Scottish nobleman said 300 years ago of the famous battle of Pinkie in Scotland, when the English party desired to place on Scotland the union of that country with England—"I like the match well enough, but dislike the mode of wooing." But it would be said that they were objecting to what was the right of all men in England—namely, the power of combination. He did not think there was one person there who was so unreasonable as to object to combination; but as a famous character in the French revolution said of liberty, so it might be said of political combina-

tion, that many crimes and offences were perpetrated in its name. There were two sorts of combination; there was legitimate fair combination of a class for a legitimate object, emanating from self, to which no one could object, and there was combination which was fictitious and factious, and which proceeded from outside agitation, to which he strongly objected. A great deal had been said and written with regard to the English farmer during the last six months which was calculated to move both one's contempt and indignation. People seemed to forget entirely what the nature of his employment was, that it differed in a great degree from almost all those industrial occupations which had made this country so prosperous. Many forgot how largely the element of climate and weather affected his occupation and the results of it, and therefore they talked what appeared to him to be nonsense when they attempted to apply all those principles which were common and necessary to the merchant to the trade of the farmer. Still more was this the case when they considered the highly complicated nature of modern agriculture, by which everything, so to speak, turned upon the proper use of machinery at the proper time. When the whole profits of a year or half-year might be imperilled by bringing the work of a farm to a standstill, let them picture to themselves a trade's union standing by and interfering in order to throw the whole work of the farm out of gear, and then they would see the impossibility of entering into comparisons with manufacturing businesses. Therefore he considered trades' unions were a bitter enemy to the farmer, and that they would strike a fatal and deadly blow against English agriculture. Now a word to landlords. They were, he knew, in the habit of coming in for a good deal of abuse, sometimes, perhaps, with justice, and sometimes with a good deal of unfairness. They were blamed very often for the state of cottages, although those cottages often belonged not to the landlords but to speculators who built them for the purpose of making a profit by them. They were sometimes favoured with what he called fabulous remedies. They were told that 700,000 cottages, which were to cost £70,000,000, were required, but where the money was to come from, and what was to be the return for it, he did not know. He considered the legislature had given the landlords extremely little help, and notwithstanding this he believed there was an earnest wish on the part of the landlords to do all they could in the way of improving the dwellings. He did not believe, as a rule, that the cottages paid any return, or if they did it did not exceed one and a-half per cent. They were let as a rule to the tenants out of a kindly feeling, and with the earnest desire to improve the social and material condition of those who resided upon the property. But if the trades' unions had their way, if these political theorists who declared that mere money payment was the only point which existed between employer and employed, then it would be clear to every one that the rent of the cottages must inevitably be raised. The labourer would find out that his professed friends were in reality his hidden enemies. He believed there was an earnest desire on the part of the farmers and all concerned to meet this question in a fair spirit, and during the winter he advised them to give their serious attention to it. This question, be it remembered, was only a part of the greater question which was coming upon them, and it was one which could not be satisfactorily settled by mere cash payments. There was the question of privileges, which he firmly disliked very much. It was not so simple a matter as it looked to outsiders, and it was one which the labourer, as a rule, preferred to a mere cash payment. He believed the more the labourer understood the question the clearer would he see that there were two sides to the question. He was satisfied of this, that there would be greater facilities for the migration of the labourer from place to place, but at the same time there would be a great and larger introduction of machinery into agricultural pursuits, and with that there would always occur a diminution in the number of hands necessary to work a farm. These were changes which the events of the future would inevitably bring with them. They might be compatible with both parties, but they could not be resisted or avoided. If the labourers desired to go to the North of England they would do so, and would probably be able to earn higher wages, because in the manufacturing districts the profits might in some cases be reckoned at fifty per cent., while in the South of England the farmer was content with his five, six, seven, or ten per cent. And then arose the question, was it policy for the farmer to hold out inducements

to the labourer which would prevent his leaving? The landlord could help in the matter of cottages and gardens. He might see that they were adapted and sufficient for the population. He might also see that there was a due appropriation of allotment ground for those who desired it, and that a sufficient number of small holdings existed to admit of the thrifty improving their position. The establishment of friendly societies was another point which would be closely watched; and further, he advocated the system of piece-work wherever it could be applied, believing it to be sound in principle. Lastly, there was the principle, which had found little favour as yet, but which he believed to be not only in the abstract sound, but which, under certain limitations, might be successfully applied—he alluded to the proposition of the Speaker of the House of Commons to pay to the men a certain interest upon the profits of the farm. He considered this was a principle which deserved consideration, because it was sound in itself. They were now in a state of transition, and they must prepare for changes; but he believed there were sure and certain ways of meeting those changes without inconvenience to existing interests. There was the motto of an old London company which he remembered, to the effect that by harmony small fortunes were built up, and that by discord the greatest fortunes were ruined.

At Loughborough, Archdeacon FEARON said: There was a question as important as that of wages, viz., that of the cottages. He thought it very desirable that the labourers should be well housed, and that they should be as near their work as possible. Some years ago a raid was made, as it were, on labourers' cottages, and numbers were pulled down throughout England; he was sorry to think for some time for the very unworthy reason of shoving the poor-rates all upon somebody else, when those who did it ought themselves to have sustained them. He remembered speaking to a man not long ago, and the man told him he had six or seven children, and his work was three miles off. It occurred to him that wherever the work was the men ought to have been attended to there. They took a great deal out of a man when they got him to walk several miles to his work. If a man had a comfortable and happy home it was the greatest happiness in life, and he should like to see the humblest man live happy in his home. If this was the case he thought all outside troubles would be better encountered, and if there was comfort and cleanliness at home he would be able to rise above other evils that came from outside.

At Over, Mr. J. ASTON had been one of the judges of cheese. The class was a rather small one but very good, and they experienced some difficulty in awarding the prizes to the first and second, and if it had been allowed by the committee, they would have awarded a third prize to the competitor whose cheese they highly commended. The cheese in the second class was not so good as the other. The samples of butter shown were upon the whole exceedingly good, especially the two to which prizes were awarded; and he might say to those who had been unsuccessful, "Persevere: you may succeed at another meeting." There was a bright as well as a dark side: successes as well as reverses in husbandry. Numbers in Cheshire, as well as in other counties, could testify to the truth of this assertion. Some persons could never make fine cheese, and after struggling on for years at last gave up the occupation and turned to some more remunerative employment. But although cheese makers might have difficulties to contend with, he considered that if the observations he was about to make were attended to the results would be satisfactory. First, the cattle should be fed well; secondly, the milk should be put in airy places during hot weather, and be free at all times from unpleasant smell; thirdly, the vessels should be sweet and clean; fourthly, the rennet should be applied to the milk at the proper temperature, according to the state of the weather and the condition of the milk; fifthly, the curd should be handled in a careful and skilful manner; lastly, the proper quantity of salt should be applied; and if, after complying with these conditions, any one failed to make good cheese, rest assured there was something wrong somewhere, and they should not rest satisfied till the cause had been found out. Salt was of little or no use unless the state of the curd was duly considered and thoroughly understood at the time it was applied. Cheese was either under or over cured, which greatly lessened its value, in some instances as much as 30s. per cwt. While it was well to guard against extremes, it was better, in his opinion,

to over salt the curd than to under salt it. He was strongly inclined to think that a great deal of the cheese imported from America was greatly lessened in value for want of more salt. True, it was very rich, but when exposed to the air the colour soon faded, the flavour became strong, it rapidly decomposed, and in some instances was scarcely fit for consumption. The Americans about six or eight years ago made sure about driving the English cheese-makers out of the market, but they had not done so, and, in his opinion, never would, for the best descriptions of English cheese were still worth 12s. to 14s. per cwt. more than the best American. He had no desire to undervalue the rapid progress which the Americans had made in cheese-making for a number of years past. He believed there was no nation on the face of the earth that had effected greater improvements in dairying in a given time than the Americans, among them some of the best scientific cheese-makers, who had given to the world a great deal of valuable information; but of all their advances and experiments, the conclusion arrived at was that more depended on the management and skill of the maker than on following out any prescribed mode; and it was the case everywhere that nine-tenths of the best cheese were made by rule of thumb, and by parties who had no idea of reducing cheese-making to a science. While rapid progress had been made in some industries, in cheese-making they could not do better, in his opinion, than follow in the footsteps of their forefathers; and if they did so they might rest satisfied; they would establish the wide-spread fame of their staple commodity. He had been trying for a number of years to make improvements in his dairy, and had met with small success—in fact, some persons had told him it was better fifteen or sixteen years ago than it was now. The mode was more rapid, but the cheese did not keep fine in flavour so long. He had, however, succeeded in reducing his dairy labour, and that was a step in the right direction when servants were scarce and wages high. Mr. Marshall, in responding to the toast of "The strangers," at the Tarporley dinner, spoke of the successes and reverses of exhibitors in various show-yards, and appeared to think that they were very unaccountable. He instanced Prescott taking the first prize at the Bolton show and Balmer being unsuccessful, while at the county show Balmer took first prize and Prescott second, and he (Mr. Aston) was first in the local show. At Tarporley, however, one who had been unsuccessful up to that time came forward and beat both Balmer and himself. One or two reasons might be assigned for these apparent discrepancies. The judges at Chester no doubt differed from those at Bolton, as to what constituted a first-class dairy, for a description of cheese held in high estimation in the Manchester markets and the North of England, was not so highly appreciated in London and the western counties of England. Another perhaps more substantial reason was that the cheese varied exceedingly in value; even those of the same dairy varying from 5s. to 10s. per cwt. No doubt the cheese which Mr. Balmer exhibited at Bolton were not so good as those which he showed at Chester, for at his request he (Mr. Aston) cut some in each lot in the show yard; and in his opinion those exhibited at the county show were worth at least 5s. per cwt. more than those which were exhibited in the local society. A wish had been expressed in a local paper that the merits of the factories should be discussed, but all he would say on that was that they should publish their results, so that those not now making fine dairies could determine whether they could do better by sending their milk to the factories.

At Penrith, Mr. JACOB WILSON said he had been very much surprised at the show of Shorthorns. He had heard the valuable remarks of Mr. Hodgson and others on the subject of cattle disease, but they knew that there was a great difference of opinion on that subject. That day, for instance, they had several opinions expressed, all emanating from self-interest.

Mr. J. C. BOUSTEAD and others: "No, no!" with cries of "Quite true!" and laughter.

Mr. WILSON said, with all deference to his friend Mr. Boustead, he must adhere to what he said.

Mr. BOUSTEAD: No.

Mr. WILSON continued: Well, he assumed that every man had a reason for what he said or did. His friend Mr. Boustead told him he had sold a lot of bullocks—that he had sold

them all out. And why? Because he was afraid of getting the disease. Mr. Hodgson had given them a very pertinent fact when he mentioned the increase of disease after Carlisle Fair, though no doubt the original source of the foot-and-mouth disease was Ireland. He told them so at the dinner of the Irish Society in Dublin, and they replied that they got it from England first. He did not contradict the statement, but he knew where the disease was now; and so convinced are the Royal Agricultural Society of the fact, that they now had a commission going through Ireland, to try to get the root of the matter. It was a very difficult matter to watch the export of cattle from Ireland, and Professor Fergusson told him the inspectors were so wretchedly paid that detectives had to watch them to prevent them being bought over by the Irish drovers. There could be no doubt as to the truth of Mr. Hodgson's observation, that the moving of cattle about disseminated the disease; and it was a fact that there was never less foot-and-mouth disease in the country than during the period of the cattle plague restrictions. He hoped, therefore, that the Cumberland farmers would forget that, because this was autumn time, and they had a lot of young bullocks to sell, they must have them moved in spite of everything. Let them think of the general safety first. No doubt there was much truth in what Mr. Hodgson said about the effect of the influx of gold on the price of meat; but we had not yet got over the rinderpest. Many farmers, who had gone largely into the cattle trade before that had given it up, when they saw the havoc the plague wrought, and in the belief that cattle were more liable than any other stock to disease. That, he believed, had much to do with the present dearthness. Who got the price he did not know. He was a large grazier, and he knew he did not get the increase of price. Perhaps the breeders got it, and he hoped they did; but the feeders did not. They were proud of their cattle in Cumberland, and they had a right to be, after what they had shown in the Royal and other great yards; and he trusted Sir Tatton Sykes would not be a solitary instance of men coming into Cumberland to buy cattle.

At Watford, the Earl of CLARENDON, the Chairman, said emigration, politico-economically speaking, is all very well to carry off the superfluous population and check its too rapid growth; but when such numbers of strikes in a variety of trades take place, it must necessarily, unless an advance is made, create such a gap in the population that many trades, especially farmers who require hands for everyday work, may almost shut up shop. And what is the feeling of the agricultural labourer? He sees on all sides signs of universal prosperity—that the wealth of the country has increased and is increasing—and that he ought to have higher wages to keep the wolf from the door, looking at the high price of meat and the enormous cost of coal. Of course this cuts both ways. This leads me to make one remark on the practical question of farming, and that is that it is absolutely necessary for the farmer to have capital at the outset of his career to enable him to go on prosperously, and by many charitable acts benefit his labourers and increase the prosperity of the country. It is not my intention to allude to any other subject, but I cannot help alluding to the question of game. It was my fortune, not many years ago, to deliver many speeches on that subject in Warwickshire, when I had the honour to stand for that county. Now, Warwickshire is essentially an agricultural county, and I was told that when in speaking of rabbits I said that rabbits should be the property of the tenant, I was propounding a revolutionary theory. But I don't see that I was wrong, and it is still my opinion that rabbits ought to be the property of the tenant. There is no such nimble an animal to avoid a gun as a rabbit. I have seen fearful ravages caused by rabbits. In Lanarkshire, which is a great game-preserving county, I asked a relative of mine a question on the subject, and when I said surely the farmers ought to have enormous compensation for the damages they sustain, the reply was, we do not pay enormous compensation, for our farms are underlet. Hertfordshire is not a game-preserving county, and I would advise the tenants in the spring, when the crops are green, to go to the landlord and point out the damage that is occurring, and not wait until the crop is fully grown, and when, perhaps owing to bad tillage or some fault in the land, the crop may prove indifferent.

SALE OF THE HARLOWBURY HERD OF SHORTHORNS,

ON TUESDAY, SEPT. 24, 1872.

By MR. THORNTON.

Scarcely three months have passed away since the death of Mr. Chas. Barnard, of Harlowbury, Essex, and his executors, promptly fulfilling his intended purpose to dispose, this autumn, of his large herd, brought it to the hammer on Tuesday last. He succeeded to his inheritance many years ago, and continued the Manor Farm at Harlow, which had been in his ancestors' possession, under the North family, for more than 150 years; indeed some time since, when that lengthened period had elapsed, a silver cup was presented to him by Col. North, at a dinner, as a testimony of the good will existing between the families of landlord and tenant for a century and a half. The old lease used, it was said, to specify that three male animals had to be kept on the farm, and this doubtless led Mr. Barnard, in the dawning days of improving stock, to better his dairy cows by a few pedigree Shorthorns. The late Mr. Bramston and Mr. Colvin were the earliest to improve the stock of their county, and they had no more zealous follower than Mr. Barnard, who not only bought up their occasionally drafted specimens, but followed their example by at times exhibiting a few of his best specimens at the county shows. His idea was that a cow might be fatted to be worth £40 to the butcher. He was, it should also be mentioned, a large mill-owner and corn-factor—consequently a man ought not, he considered, to invest much more than that sum in a young breeding animal. Sober maxims and sure commercial investments they might be, but they were not the kind from which a herd of first-class cattle or sheep could be produced, though they doubtless led to an immense improvement of the general stock, both on the farm and in the surrounding neighbourhood. With advancing years and increased experience, the old breeders' maxim of "the best to the best" and "get out of the worst" began to have some weight with him, and after breeding for more than fifteen years from principally local animals, he launched out at Captain Oliver's sale, where he gave eighty odd guineas for a Bates bull, and followed it up with some cows of the Sonsie and Spencer tribes at Mr. Charles Howard's sale. The dairy was always uppermost in his mind, as a large contract with a London firm necessitated the filling of the milk-cans night and morning. Consequently the herd was a large one, comprising more than forty cows, the greater number being pedigree Shorthorns, and with the heifers and calves the catalogue contained only one short of eighty head. The day broke gloomily, and before breakfast hour was past the rain began to come steadily down and continued until the afternoon. The cattle looked to disadvantage in the wet fields, but as a lot they seemed a very useful though not a very level collection. In the house, where they were gathered a little before noon, they showed to better advantage, the broad backs of several coming well out, as well as the capacious udders of the others. Scarcely a dozen people were there to see them; the mid-day trains, however, brought scores from Kent, Essex, Norfolk, Cambridge, Herts, and Beds. About one hundred and seventy sat down under a marquee to a comfortable and bountiful spread of cold viands, good beer and sherry. The memory of Mr. Barnard was drunk in silence, and the sale commenced with the old cows, soon after one o'clock. For the best and most blooming lots satisfactory prices were realised. A few of the animals had been summered at an off farm, and were brought up thinner in condition than the rest, nor were they such good specimens. The

calves were a nice lot all through, being generally very hairy, and well roaned in colour; there was even more competition for them than for any other part of the herd. Several of the lots were of the Spencer blood, descended through No. 54 and 55 at the Chilton Sale, with recent crosses of Bates' sires. For these animals the competition was evidently keener than for the others, though the best-looking cows sold well. The following are the principal prices: Lot 1, Rosy Morn, 33 gs., J. Pressland; 2, Young Princess, 35 gs., T. Allen; 3, Clara Thorndale (own sister to Lady Thorndale, sold at Dunmore, for 100 gs.), a plain-coloured useful cow, 49 gs., G. Day; 4, Lady Sophia Spencer, ill, 20 gs., Postle; 5, Spring, 42 gs., C. Taber; 6, Echo, a broad good cow, 44 gs., T. Rose; 8, Sunshine and bull-calf, 56 gs., Goddard; 9, Young Silkworm, newly calved, 27 gs., Allen; 10, Joan, a fine square cow, 35 gs., Pressland; 13, Lady Oxford, 36 gs., Allen; 15, Lady Butterfly, 41 gs., Hartopp; 16, Patty Thorndale, 34 gs., Tippler; 18, Dot and roan bull-calf, 50½ gs., J. Christie; 19, Daisy, bought of Mr. Howard, of the Sonsie tribe, 62 gs., C. H. Cock; 20, Petty Rose, a fine large red cow, of Mr. Christy's breed, was purchased by him for 60 gs.; 21, Lady Fragrant, a highly commended cow, and one of the best animals sold, elicited sharp biddings, and finally went to Mr. Cock for 93 gs., the highest price realised. Lot 23, Pearl, 41 gs., T. Allen; 25, Genevieve, 47 gs., C. Hall; 26, Lady Sonsie Spencer, 34 gs., Sturgeon and Sons; 28, Golden Butterfly, a prize winner as a heifer at the Essex Show, 48 gs., J. Christy; 29, Spicy and calf, 48 gs., H. Store; 31, Thorndale Sugar-Plum, a prize heifer but not breeding, 42 gs., J. Brown; 37, Lightburne Spencer, 38 gs., G. Underwood; 38, Strawberry, a prize winner as a calf, and a very good animal, 52 gs., G. J. Day; 42, Dagmar's Daughter, 27 gs., Major Fanning; Lots 44, Violet, and 46, Picotee, a pair of commended heifers at the county Show, 41 gs. each, both purchased by Mr. S. Gossey, Norfolk; Lot 54, Elaine, 27 gs., C. Booth; 55, Queen of the Roses, 32 gs., G. Underwood; 57, Lady Seymour, a hairy pretty calf, 30 gs., C. Stubbs; 61, Patty Liverpool, 20 gs., C. Booth. Bulls: Lot 63, Duke of Liverpool, three years old, bought of Captain Oliver, although an excellent stock getter, was of a wicked temper, and being led out in blinkers had doubtless an effect on his price, which at 50 gs. (G. Bland, Coleby), was very reasonable. The young bulls generally sold well. Lot 66, a roan yearling, 57 gs., G. J. Day; 67, Lord Lovel, was reserved at 50 gs. for the use of the farm; 68, Third Duke of Claro, a prize calf at the county Show, 61 gs., P. Brown; 72, Comus, 31 gs., D. Denne; 77, Saucy, 25 gs., W. Barnard. The sum total of the sale amounted to £2,673 16s. 6d. for 79 head, which gives an average of £33 17s. for the entire herd. This sum was said to have generally exceeded the anticipations of the chiefly interested parties, amongst whom Mr. John K. Barnard succeeds his father at the farm.

SALE OF MR. R. BLACKWELLS' SHORTHORN HERD,

AT TANSLEY, MATLOCK, ON THURSDAY, SEPT. 26, 1872

By MR. J. THORNTON.

Tansley lies high and dry about two miles from romantic Matlock on the Mansfield road, and about three hundred feet above the Derwent. Many a "local" remembers, ten years ago, the common on which Mr. Blackwell's house and buildings now stand. Sheep and high farming, combined with skill and good management, have by degrees improved the waste land, to the credit of Mr. Blackwell the

beauty of the surrounding neighbourhood, and to the delight of the permanent residents and cold water fanciers at Smedley's. When Mr. Blackwell took to farming improvements, he gradually retired from the milling business to which he had, like a dutiful son, succeeded his father, and seven years ago he bought a good young bull, Winterbourne, of the Stratton blood. Dairy cows—and the neighbourhood boasts some really fine specimens of this class of stock—grew less one by one as a good dairying Shorthorn took their place. One or two came from Mr. Sheldon, of Brailles, a few more out of his own district, and at the Wicken sale he paid a good price for Jupiter (24228), a bull with two Duchess crosses on the J. tribe. A better animal few men, it was said, need wish to have: he was of a deep red, a grand, fine-looking, level bull, and he left stock as good as himself, while he won two or three times at the county show. A cruel judge bowled him out at the Leicestershire meeting, and the heart out of Mr. Blackwell as well, for he increased the bull's weight and sent him to the neighbouring block, where his carcass of beef was the talk of the village. When the late Mr. Stratton had his large sale at Broad Hinton, Mr. Blackwell was rather an extensive buyer, and picked out most of the best lots; consequently the Stratton blood abounded in the catalogue. They were considered by a large number of the spectators present to be quite the best things in the sale. Of course opinions differed as to this, for those animals bred by the late Mr. Fawkes, which Mr. Blackwell "begged" at Farnley a few years ago, came out singularly well, and indeed made the best prices. Still, as we wrote of the West of England show, Mr. Stratton's blood is coming to the fore, and we believe that this is the first public sale, away from head-quarters, where they have been brought out in any number; the public appreciation is best estimated by the £58 10s. average which the fifteen—five of which were small bull-calves—realised. It should be mentioned, however, that four out of the five calves were by the Booth bull, Knight of Knowlmere, a well-known sire, late the property of Mr. Jonathan Peel. Mr. Blackwell bought this celebrated animal at beef-price, last year, at Whitewell. With judicious reducing, he has been a very fortunate purchase, for the seven calves by him averaged £56 each: indeed, it seemed a pity, as the auctioneer remarked at the commencement of the sale, that the herd was sold at the present time, for the calves had every appearance of becoming first-class animals, and another crop or two would have given the herd quite a character. Mr. Blackwell, however, reserved the right of a 300 gs. bid on Knight of Knowlmere, which was not advanced upon, though several breeders were anxious to hire the bull. Baron Stackhouse, a young bull bred by Mr. Carr, was also offered at the sale, for the purpose of realising a partnership; but two of the four owners bought up the other shares, and the bull was put in at 250 gs., which was likewise not covered, so he remains now the property of Mr. E. Wortley and Mr. Woodroffe. The Rev. J. Storer sent four animals, and their excellence gave quite a help to the sale; one of them, lot 3, Booth Duchess, a very fine cow, was sent more as a specimen of a large tribe, the Booth on the Blanche or Sockburn blood, which Mr. Storer is now cultivating at Hellidon. Her price, at 120 gs., is some evidence of the public estimation of the cross, considering also that the cow is nine years old, and has had seven calves. She was full of calf to Knight of Knowlmere, and though seven months gone, still in milk. Lots 18, 23, and 44 (a bull calf), were all of the Studley Anna tribe; lot 18, Anna 5th, rather small, had calved early, but was very symmetrical; she was cheap at 105 gs., and Mr. J. Thom, we heard, refused 20 gs. profit on his purchase. Anna 6th, though plainer in colour but larger in size, gave every promise of becoming a first-class animal. Mr. Rose gave 190 gs. for

her—apparently not very dear at the price. The bull-calf was also very promising, being remarkably good behind his shoulders. He goes to Mr. Allan at 61 gs. Thus the four animals of Mr. Storer's averaged within a trifle of £130 a-piece.

Mr. H. Chandos Pole-Gell presided at the luncheon, where most of the leading Derbyshire breeders were present. The sale began happily under the auspices of fine weather, for the day previous the rain came down in torrents. The cattle were thinner in condition than many expected; but Mr. Blackwell accounted for it by the confinement of his stock to the Tansley Farm, some of his land at Darley Dale being surrounded with foot-and-mouth disease, and, as he said, he thought it better to show them in their natural form than run the risk of getting them infected, if he made them fatter upon richer grass land. The biddings, all through the sale, were good. The first lot, Bagatelle, a fine old fresh-looking cow of Mr. Fawkes' breeding, on the Booth Medora tribe, went up to 48 gs. (Mr. Gell); and lot 2, Emerald, of the Stratton blood, and quite the old type of Shorthorn—*panier à-la-mode*—made 53 gs. from Mr. Pears, a Lincolnshire farmer. Mr. Fox, of Cheshire, purchased three or four of the handsomest lots, including Lizzie, also of the Stratton strain, at 125 gs., and Medora 1st, a daughter of Lord Cobham, at 205 gs., the top price of the sale. The other purchasers were Mr. Thom, lot 22, Lioness 1st, 135 gs.; lot 21, Lotty, 80 gs.; and 32, Camelia, at 64 gs. Mr. J. J. Wilkinson, of Cheshire, also got several very useful animals, and purchased the bull lot 40, Derbyshire Hero, a son of Bolivar and Stratton's Emerald, quite like a prize-winner, at 130 gs. The two or three animals of the Angus blood were not looking in good order. Lot 11, Crocus, very full of hair, went to Mr. Rose for 73 gs.; but her heifer, Soldier's Daughter, never got over the foot-and-mouth disease when a calf, and came out looking very bad, as did also her calf. Lot 41, Bannerman, a red yearling bull of the Gwynne blood, of Mr. Gell's, could not be brought forward on account of the disease, and is therefore still on sale. The Derbyshire farmers seemed astonished both at the stock and success of the sale, which exceeded the anticipations of Mr. Blackwell and his friends by something like £15 a-head. The cows averaged, including Mr. Storer's, £70 10s., and the bulls £52, or a general average of £67 for 42 head. Taking place in a country so well adapted for Shorthorns, and where they are, so to speak, comparatively but little known, the sale will doubtless cause much talk in the neighbourhood, and lead to a little more beef being engrafted on the capital dairy cows, which abound hereabouts. Still the dairy cows of Derbyshire, as we intimated in our report of the recent Derby show, are too good to be altogether "improved" out of their present true and honest character as milkers.

COWS AND HEIFERS.

Bagatelle, Mr. H. C. Pole Gell, Derby, 48 gs.
 Emerald, Mr. T. Pears, Lincoln, 53 gs.
 Booth Duchess, Mr. J. J. Wilkinson, Cheshire, 120 gs.
 Blue Cap, Mr. J. W. Philips, 41 gs.
 Matchless, Mr. T. Pears, 48 gs.
 Rachel, Mr. Gregory, 39 gs.
 Friar's Balsam, Mr. M. T. Hopkinson, 50 gs.
 Blush, Mr. J. J. Wilkinson, 55 gs.
 Lady Leone, Mr. G. Fox, Cheshire, 75 gs.
 Crocus, Mr. T. Rose, Norfolk, 73 gs.
 Lizzie, Mr. G. Fox, 125 gs.
 Water Maid 2nd, Mr. J. J. Wilkinson, 40 gs.
 Emerald 3rd, Mr. M. T. Hopkinson, 54 gs.
 Ruth 4th, Rev. W. Sneyd, 47 gs.
 Soldier's Daughter, Mr. W. S. Woodroffe, 26 gs.
 Anna 5th, Mr. J. Thom, 105 gs.

Diadem 2nd, Mr. E. Jeffs, Canada, 51 gs.
 Medora 1st, Mr. G. Fox, 205 gs.
 Lotty, Mr. J. Thom, Chorley, 80 gs.
 Lioness 1st, Mr. J. Thom, 135 gs.
 Anna 6th, Mr. T. Rose, 190 gs.
 Medora 2nd, Mr. J. W. Philips, 100 gs.
 Alice Grey, Rev. W. Sneyd, 45 gs.
 Bloom, Mr. T. Robinson, 38 gs.
 Rosetta, Mr. W. Cox, 26 gs.
 Flora, Mr. J. J. Wilkinson, 40 gs.
 Lioness 2nd, Mr. G. Fox, 34 gs.
 Ruth 5th, Mr. M. T. Hopkinson, 18 gs.
 Water Maid 3rd, Mr. H. Wale, 18 gs.
 Camelia, Mr. J. Thom, 64 gs.
 Medora 3rd, Mr. J. W. Philips, 170 gs.
 Diadem 3rd, Mr. H. Wale, 27 gs.
 Ruth 5th, Mr. T. Robinson, 22 gs.
 Rosebud, Mr. E. H. Garton, 20 gs.

BULLS.

Derbyshire Hero, Mr. J. J. Wilkinson, 130 gs.
 Eclipse, Mr. J. Vickers, 17 gs.
 Earl of Studley, Mr. J. Allan, 61 gs.
 Lord Derby, Mr. W. Wilson, 31 gs.
 Knight of Lothian, Mr. T. W. Cadman, 45 gs.
 Knight of Derby, Mr. T. Adwick, 48 gs.
 Knight of the Derwent, Mr. E. H. Garton, 32 gs.
 Knight of the Peak, Mr. W. Cox, 34 gs.

SUMMARY.

	£	s.	d.	£	s.
34 cows averaged	70	6	9	2,396	2
8 bulls „	52	4	9	417	18
42 head „	67	0	0	£2,814	0

SALE OF THE LATE MR. CADDY'S SHORTHORNS,

AT ROUGHOLM-IN-ESKDALE, CUMBERLAND, ON
 WEDNESDAY, OCTOBER 9, 1872.

BY MR. THORNTON.

Mr. Caddy takes rank with the earliest improvers of the Shorthorn breed in his county. Farming about two miles from the coast nearly a thousand acres of marsh land and mountain top, his residence, appropriately named Rougholm—a snug and comfortable dwelling-place notwithstanding—stands above the Esk, and directly opposite the woody banks and castle towers of ancient Muncaster. Part of the home farm runs over a small mountain ridge into a valley beyond, no great distance from sombre Blackcomb. The Herdwick sheep, of which he kept about a thousand, range over the granite blocks and live as they may. There, too, the heifers have to seek a living, grazing the scanty bite as they go over the mountain side. A handful of hay helps them to brave the storms and wintry blasts that gather force from the Irish Sea, and blow up the valley a perfect hurricane. Well might he require hardihood and constitution among his kine in such a climate. Perseverance and judgment, backed by experience, helped him in his selection, and great were the struggles with local influence and fashionable blood. One of the original cows bought in 1829—the year of the great Chilton sale—was bred from Mr. Burrow's stock of Carleton Hall, and there was a remarkably good, rich roan, hairy heifer-calf of this tribe, of seven generations, which went to Mr. Brooksbank, of Rotherham, at 37 gs. Purchases from the Carleton Hall sale brought in the old Gilliver tribe, which has ramified into three families, the Elizas, the Ediths, and the Lady Melbournes. The strength of the herd was in the Roseberry tribe, which came from Lowther in 1844, and more specially in the Gwynne's, from the Blencow sale in 1849, where Young Dowager Gwynne, lineal descendant of Robert Colling's

Princess, was bought for 20 gs. Lowther blood filled the veins of the earlier bulls, and Bachelor (5770) is said to have been one of the best, both in looks and as a sire, that was used during a quarter of a century. Blencow (9969), of the Troutbeck Strawberry line, and Lablache (11656), from Mr. Ambler's, full of Lord Ducie's blood, came in about the time of the Gwynne accession, and they were followed by Flying Dutchman (10235) from Holker, with a strong dash of Knightley blood, and Duke of York (14461) from Messrs. Patterson, with a strong infusion of Bates. Improvement in the stock not being to his mind, Mr. Caddy turned again to the old Bachelor blood, and bred a little from Mr. Shaw's Exquisite (14524), of the Mantalini strain, and his neighbour Mr. Brocklebank's Garibaldi (19820), a son of Heir-at-Law, and bred from Killerby blood. Finally he purchased a Booth bull for himself, and got Knight of Destinglar (18158) from Captain Spencer's sale; and the offspring of this bull were said not to have done growing even into their sixth and seventh years. This bull was followed by the Rev. J. Storer's Sir Windsor (22927), of the Studley Anna tribe, a bull of remarkable handle and fine hair. Meantime, Mr. Hodgson, his neighbour, got Mr. Horman's Baron Wild Eyes (19290) by Mr. Booth's Duke of Buckingham, out of a Wild Eyes Gainford cow, and one or two cows were sent to him; indeed, lot 3 of the sale, Wild Eyes Gwynne, a very grand animal, was by this sire. Waterloo Cherry, combining the Booth with a little Bates and Cherry blood, came from Mr. Torr's large herd at Aylesby in 1869. The following year Mr. Caddy's declining health gave way, and he expired in the autumn. His son Henry, who was nearly of age, came into the farm and management of the stock. Continuing his father's system, which had been strengthened with the results of the last decade, he purchased a very promising young bull Sultan at Mr. Pawlett's sale, who has since been used with the heifers. Finding, however, the difficulty of keeping a very large herd on, it was resolved to dispose of the larger portion of it, and Wednesday last was the day fixed, when most of the local shows were over. The continuous wet had gone against the cattle both at Rougholm and elsewhere, consequently they were shown only in natural store order; as, indeed, it would have been to the seller's interest had the heifers been fresher. The young calves were remarkably good, and sold at capital prices. The trains arriving at noon, scarcely a hundred people were present before that hour, and it was noticed among those present how very, very few breeders were there. Whitehaven supplied the majority, and some came up from Ulverston, and another lot from Aspatia, with one or two from Yorkshire and Leicestershire. By one o'clock the local company gathered in great force, and 400 took luncheon. The ring, with the aged seated inside, was thronged without. While luncheon was being finished, the bulls, Waterloo Cherry and Sultan, were walked round. The first, a very fine large roan animal, is long and low, a little harsh in his hair, but with feed might become a leading show bull. Sultan, of splendid quality and fine flesh, is also roan, and slightly disfigured by his horns inclining backward. The conditions were attentively listened to, and also Mr. Thorntou's remarks on the stock. The biddings were lively for the first cow, a Gwynne of Duke of York, showing much style for an aged cow. The Roseberrys, although large good cattle, had hardly so much character as the Gwynnes, still Mr. Brooksbank got a fine cow in lot 2 at 41 gs. Wild Eyes Gwynne, whose name was disputed, out of a Knight of Dislington cow, was a large massive beast, and she goes into the South of England at 115 gs. Mr. Thom selected some very useful cows of sweet character and good milking properties, for the herd ex-

celled in this degree, though it was sadly bothered with sore legs, the cows on one part of the farm being always more or less affected in this manner. Dainty Gwynne was a very short-legged nice animal; but perhaps the pick of the family was Rose Anne Gwynne (which Mr. Robert Jefferson got at 83 gs.), and Rhoda Gwynne, lot 13, with her two heifers, each with four crosses of Booth blood on Young Dowager Gwynne. Mr. Thom got the dam cheap at 90 gs. and the yearling heifer at 130 gs., whilst her own sister, a beautiful roan hairy calf, was bought by Mr. Crowdsen, also at 130 gs. Lot 20, Silky Gwynne, was also a nice cow, and went to Mr. Allen at 110 gs. She was a grand-daughter of old Sally Gwynne, a cow that was never ill, bred thirteen calves, and died from an accident in her eighteenth year. Indeed, longevity prevailed throughout the stock, and not one animal had been lost of lung affection for many years. Health, vigour, and strong constitution were the objects sought in breeding, with good milking properties. Delicacy Mr. Caddy would not have at any price, and yearly he fed ten or a dozen heifers, which, when fat, he was sorely tempted by farmers to sell at 35 or 40 gs. but which went to the butcher at £25, as he considered them weeds and unfit for breeding. The bull-calves were readily sought by the farmers, and 25 to 50 gs. were his prices. A few years ago four of his heifers were purchased by Mr. Atherton at 45 gs. each, and from one cow, Polly Gwynne, were descended Mr. Hetherington's, Mr. Foster's, and the late Earl of Aylesford's Gwynnes, which realised over 2,000 gs. in ten years. On several occasions he was almost persuaded to adopt a more fashionable system of breeding; but previous experience had taught him too practical a lesson to be easily forgotten, and he quietly persevered in his own course. Some few present did not fail to remark the greater value that might have been obtained for the herd had he adopted the pure Bates line; but what possibly he might have gained in price, he now had in number, and so strong a constitutioned herd, that the stock might be taken anywhere in the kingdom and thrive. Moreover, he had quoted from the statistics and particulars that he was always so fond of gleaning, that at the Blencow sale in 1859 Mr. Troutbeck offered 26 Gwynnes, nearly half of which were bred from the cross of Young Benedict, a son of Mr. Booth's Benedict, and from them came the highest prices, and an average of nearly £80, against £60 for those without the cross. The 15 females of the family now sold averaged £87 12s. 9d., against £84 10s. for the 21 sold at Biddenham in 1870. Mr. Robert Jefferson occupied the chair at the lunch, and spoke in warm terms of his late friend. With about twenty head retained of the old stock, and stimulated by the success and encouraging results of the good and even sale, the son has a long and, it is hoped, a bright career before him.

SUMMARY.

41 cows averaged	£58 6s. 9d.	£2,391 18s.
15 bulls „	£33 19s. 0d.	509 5s.
56 „	£51 16s. 1d.	£2,901 3s.

SALE OF MR. BROCKBANK'S HERD OF SHORTHORNS,

AT BURG-HY-SANDS, NEAR CARLISLE, ON FRIDAY,
OCTOBER 11.

By MR. THORNTON.

The "clerk of the weather" must have been in good humour on Friday, for it was quite an exceptional day in being bright and fine, whereas the day previously was as

stormy and wet as any this unusually damp season. Coming late and going early seems as fashionable in Cumberland as elsewhere, for Mr. Brockbank had but few visitors till the midday trains arrived, when large numbers came up and partook of a bountiful lunch under total abstinence principles. Burgh House, where Mr. Brockbank formerly resided, on an undefined tenure, was not far from the Hill Farm; and he could do a little farming in the morning and transact his business in Carlisle later in the day. But, alas! he had to make way for the landlord's relative, and part of his grass land went as well, so that which had been a source both of relaxation and pleasure became now a weekly and almost irksome duty, so much so that he resolved being outstocked as well, to give up his herd of Shorthorns. The early knowledge which he gained of the breed at the dispersion of the Lowther herd was fostered and increased by his friends the Willis, of Carperby, from whom he purchased two or three females and a bull. Mr. Ambler's sale also supplied two or three lots, but he was unfortunate with his earlier investments, for they were unfruitful, and became so heavy in condition that he sold them; one of them afterwards, when turned out with a young bull, however, became a breeder, much to his dissatisfaction. Mr. Ambler's Miss Nicety, the first lot in the catalogue, bred from Mr. Maynard's stock, with a Booth foundation, and of the same line as the Duke of Devonshire's Cozy, produced heifers which repeated the same process until the family mustered more than a dozen. Some short pedigreed animals, but massive useful cattle, came from Mr. Syme's of Annan; and from Mr. Hetherington's sale, he got both a Wild Eyes and a Duchess Nancy cow. Nor did he fail in support for his neighbours, for at Killhow and at Brayton he was also a purchaser. The Farley investments were likewise lucky purchases; two or three of the cows were by Lord Cobham, whilst one of them produced by that sire the young bull Marquis of Cobham, who was extensively used, after Alfred Fitz-Clarence from Mr. Willis' had been in service. Fifth Duke of Oxford, of the Duchess Nancy tribe, and Warden from Mr. Willis's stock were both bred and used at Burgh. But at Nunwick in 1870 he made a good bargain in Earl of Eglinton, a son of Tenth Grand Duke, who left a fine lot of hairy calves and yearlings, which averaged about 23 gs.

Notwithstanding the continual soaking that the country had undergone, the cows were kept running out with the calves at their sides, and the heifers fared the same way, though some of them had doubtless, by their blooming condition, tasted more fattening food. The prices they made told accordingly. Some of the cows went very reasonably. Notably old Lot 1, a cow of great sweetness and character, and also full of calf, Mr. Allen got at 33 gs.; as also Lot 3, Bessie, from Brayton, descended from Mason Hopper's stock, a really good cow in calf, at 42 gs.; she had a remarkably short-legged white heifer-calf sucking, by Earl of Eglinton, which likewise went to Mr. Allen at 26 guineas. One of the finest looking cows in the sale was lot 4, Wild Eyes 22nd, a tall good animal. She had a large yearling heifer in the sale and a bull-calf. Put up at 50, she rose rapidly to 100 gs., when Mr. Thom and Mr. Fox opposed each other, until the latter got her at 160 gs. Mr. Thom, of Kirbythore, got the heifer at 120 gs., and the bull-calf, a nice red one, made only 26 gs. Lot 8, Bessie Bell, bred by Mr. Foster, was a favourite cow of many people; she calved the night previously a little roan heifer-calf, which her breeder bought at 15 gs., while the cow went cheap enough to Mr. Coleman at 77 gs. Mr. Coleman also got lot 11, Marchioness 2nd, of Fawkes blood, infinitely the best cow in the sale, at 50 gs. This low price arose because some doubt was expressed of her being in-calf; Mr. Brockbank

however offered to guarantee her a breeder. Marchioness 3rd, a plainer cow, went very cheap to Mr. Allen at 30 gs., and Mr. Coleman got another cow of the Fawkes blood half-gone in calf at 47 gs. The younger cows sold well, as also did several of the heifers. Mr. W. Thompson gave 50 gs. for a red daughter of Bessie Bell, and Fourth Duchess of Oxford, of the Duchess Nancy tribe, although so ambitiously named, reached but 70 gs. (G. Fox). The Warden heifers were very good, with thick red coats, and Mr. R. Jefferson was remarked to have got the best in Dame Warden at 38 gs. Earl of Eglinton having somewhat injured himself, was withdrawn; two or three of the bull-calves were rich in colour and full of coat. The best of these were lot 52, Marquis of Eglinton, which went to Mr. Dowson at 30 gs., and lot 56, Earl of Cobham (Mr. T. Richardson) 31 gs. The sum total of the sale was £2,043 6s., or an average of £37 3s. for 55 head sold.

SUMMARY.

47 Cows averaged....	£39	8	2	.....	£1,852	4	0
8 Bulls „	23	17	9	.....	191	2	0
55 head „	37	3	0	.....	£2,043	6	0

SALE OF MR. WM. BRADBURN'S SHORTHORNS,

AT WEDNESFIELD, WOLVERHAMPTON, ON FRIDAY, OCTOBER 18.

BY MR. JOHN THORNTON.

The preface to the catalogue stated that the herd was first started from the well-known stock of the late Mr. Joshua Price, of Featherstone, the prize heifer Honey Flower (granddam of Miss Chesterfield) being purchased in 1860; this heifer by the bull Sultan (15355), who was second at the Chester Royal, and full of Milcote blood, was lineally descended from June Flower, bred by Mr. Torr, a great-granddaughter of Strawberry, bought by Mr. J. G. Dixon at Robert Colling's sale, 1820. There were also descendants of Flora, a prize heifer (granddam of Nitrogen' ancestress of Ammonia), whose pedigree traced to Mr Manning's stock at Rothersthorpe, as well as other animals from Mr. Price's herd. Purchases were also made from Mr. Charles Stubbs' stock (Coralline being one of them), and some others were bought at the Earl of Dartmouth's and Mr. Harward's sale at Winterfold, 1871. The bulls had been Wednesfield (30281), half-brother to Miss Chesterfield, and the prize winner White Satin (27800), who, bred by Mr. Swingle, was descended from Mr. Torr's stock through his sire, and from the late Mr. Chapman's prize strains of Whitwell, Oakham, through his dam. Mr. Bradburn had been faithful to the almost dying wish of his friend Joshua Price in continuing the reputation of the Featherstone Shorthorns in the Cannock, Rugeley, and Staffordshire shows, and he further extended it by bringing them forward at not only the Royal, but at the Yorkshire, Lincolnshire, Northumberland, and nearly every other county exhibition. And similar too was the Wednesfield herd bred, for, besides the half-dozen prize things, Mr. Bradburn kept about a score of short pedigree useful dairy cattle; so the charge was in truth literally fulfilled for a dozen years or more, until the decline of life and anxiety of business compelled the successor to give up some part of his business. The land at Wednesfield accordingly is to be set, and the first thing was to dispose of the herd before the showyard honours waned, and the cold and chilly November blast set in. The place is ill-fitted for a herd; the murky clouds drop their blackened particles, the coarse, green grass assumes a sickly ashy hue, and rare are the days when the sun's piercing rays can gleam through the darkened air, and give light and life

to vegetation and animal creation. Even the buildings are of the red shaly porous brick, such as the miners' thirty years' cottages are made of; and as Wednesfield House must have been a farm long before the stress of the mining operations were in force, they could not boast of much comfort. Yet, nevertheless, some of as finely fed animals as the country has seen for some time walked therefrom, to beat in distant Northumberland the Cardiff prize-winner. Exercise and air (such as it was) was the secret of his training—Ah! and of how many more? but he lacked the snug old gorse sheds from which Joshua Price sent out his Alma, his Flora, and his Princess. Adjoining the buildings, capable of holding perhaps a dozen at the outside, were nice little paddocks or pastures, in which on their return from the shows the prize-winners roamed at pleasure, but knew too well where to return for food. Fifty head, with accommodation for a score, necessitated out-keeping, and several of the animals calved on the coal-pit banks, hence the nomenclature. The consequence of this was those reared at home were brought out in beautiful condition, whilst some few of the others from a distance, heavy milkers, were in a poor state. They acted nevertheless as splendid sets off to those in show-yard trim.

At the luncheon there was a bottle of champagne to a man. The business was all over before four o'clock, amounting to a total of £1,841 14s., of which the cows averaged nearly 40 and the bulls 30 guineas, or a general average of £36 2s. per 51 head.

COWS AND HEIFERS.

Hinda 2nd, by Lord Derby (18223).—Earl of Sefton, 31 gs.
Miss Chesterfield, by Fitz-Turk (19763).—Mr. H. Fawcett, 80 gs.
Dairymaid 5th, by Prince of Featherstone (29652).—Mr. Woolf, 26 gs.
Meadow Bute, by Volunteer (30237).—Earl of Sefton, 29 gs.
Juno 3rd, by Thorndale's Grand Duke (20976).—Mr. E. Wortley, 40 gs.
Delight of Patshull, by Colonel Dan (21445).—Mr. T. R. Parry, 32 gs.
Miss Valentine, by Huntsman (21964).—Earl of Sefton, 55 gs.
Virginia 2nd, by Charleston (21400).—Mr. J. Webb, 40 gs.
Oxley Maid, by Duke of Manchester (17732).—Mr. A. S. Hill, M.P., 48 gs.
Ellen, by Leo (24320).—Mr. T. Nash, 27 gs.
Red Rose, by Royal Butterfly 15th (20723).—Mr. H. Fawcett, 110 gs.
Beautiful, by Wednesfield (30281).—Mr. F. Bird, 28 gs.
Coralline, by Lord Lyon (24417).—Mr. S. Brown, 145 gs.
Princess 4th, by Wednesfield (30281).—Mr. W. H. Kitson, 26 gs.
Ammonia, by Lord Charles (26624).—Mr. J. Bickford, 90 gs.
Snowball 4th, by Wednesfield (30281).—Mr. J. Webb, 34 gs.
Snowball 2nd, by Wednesfield (30281).—Mr. J. Webb, 34 gs.
Princess 5th, by Wednesfield (30281).—Mr. H. Wale, 37 gs.
Matchless, by Wednesday (30281).—Mr. J. C. Major, 36 gs.
Snowball 5th, by Wednesfield (30281).—Mr. S. Stubbs, 30 gs.
Lust, by Wednesfield (30281).—Mr. J. Bickford, 22 gs.
Snowdrop 3rd, by Wednesfield (30281).—Mr. F. Bird, 26 gs.
Lily 3rd, by White Satin (27800).—Mr. T. R. Parry, 19 gs.
Lily 4th, by White Satin (27800).—Mr. E. H. Horsley, 15 gs.
Beautiful 2nd, by Wednesfield (30281).—Mr. J. Webb, 25 gs.
Lust 2nd, by Wednesfield (30281).—Mr. E. H. Horsley, 24 gs.
Princess 6th, by Wednesfield (30281).—Mr. W. H. Kitson, 19 gs.
Cudpit Lass, by Charles Edward (25743).—Mr. S. Brown, 37 gs.
Miss Lea, by Wednesfield (30281).—Mr. H. Wale, 16 gs.
Miss Foot, by Wednesfield (30281).—Mr. C. Stanley, 13 gs.
Miss Boot, by Wednesfield (30281).—Mr. T. R. Parry, 16 gs.
Miss Last, by Wednesfield (30281).—Mr. S. Hudson, 16 gs.
Oxley Lass, by Woodhouse. —Mr. H. Wale, 15 gs.
Christine, by White Satin (27800).—Mr. S. Brown, 60 gs.
Louisa, by Wednesfield (30281).—Mr. W. Yates, 10 gs.
Princess 7th, by Wednesfield (30281).—Mr. H. Wale, 21 gs.
Medea, by White Satin (27800).—Mr. W. Yates, 15 gs.
Folly, by Woodhouse. —Mr. J. C. Smith, 51 gs.

Cowslip 2nd, by Wednesfield (30281).—Mr. Downing, 13 gs.
Juno 5th, by Wednesfield (30281).—Mr. W. Yates, 15 gs.

BULLS.

White Satin (27800), by Donald Bane (26698).—Mr. G. Britt, 45 gs.
Lord Preston, by Charles Edward (25743).—Mr. G. Mann, 23 gs.
White Velvet, by White Satin (27800).—Mr. J. Porter, 33 gs.
Prince of Wales, by Charles Edward (25743).—Mr. J. Roberts, 47 gs.
Surly, by White Satin (27800).—Mr. O. Bennion, 40 gs.
Phosphate, by White Satin (27800).—Mr. J. Lawrence, 50 gs.
Lord Lush, by Wednesfield (30281).—Earl of Sefton, 21 gs.
White Satin 2nd, by White Satin (27800).—Mr. J. Bickford, 20 gs.
Lord Fringe, by Wednesfield (30281).—Mr. S. Hudson, 14 gs.
Lord Bilbrook, by Woodhouse. —Mr. O. Bennion, 14 gs.
Banksman, by Lord Hawkesworth. —Earl of Sefton, 21 gs.

SUMMARY.

	Average.			Total.		
40 Cows	£37	8	8	...	£1,497	6 0
11 Bulls	31	6	2	...	344	8 0
51	£36	2	3		£1,841	14 0

SHEEP SALES AND LETTINGS.

LEWES GREAT SHEEP FAIR.—There did not appear to be any great demand for the best pens of lambs. Ewes and tegs in fair condition and middling lambs were principally sought for, and of these a pretty fair clearance was effected, but altogether the number sent home unsold must have been considerable. Ewes may be quoted it from 46s. to 66s., wethers at from 50s. to 72s., and lambs from 26s. to 48s. The highest price for wethers of which we heard was given for a splendid 100 from Mr. H. J. Cooper, of Firlie, who sold early at 72s. For ewes the highest figure, so far as we could ascertain, was achieved by Mr. W. P. Gorrington, of Kingston-by-Sea, who disposed of a hundred at 65s. 6d. Mr. John Saxby, of Northese, refused 48s. at an early period. Of cross-bred lambs, Mr. Fox, of Westhoathly, made as high as 49s. The highest figure quoted to us for Southdown lambs was 45s. for 100, sent by Mr. W. P. Gorrington; close upon him was Mr. Paige, of Ringmer, who made 44s. 6d. The show of rams was extensive; among those whose blood was represented were Mr. Carew-Gibson, of Sandgate, Pulborough, who sold a considerable number at from 7 to 15 guineas, and ram-lambs at from 4 to 7 guineas; Messrs. Emery, who let and sold at prices ranging as high as 19 guineas; Mr. Hugh Gorrington, Kingston-by-Sea, who sold several at from 10 to 15 guineas; Mr. Ashby, of Eastdean; Mr. Hart, of Beddingham; Mr. Verrall, of Falmer; Mr. Hampton, of Applesham; the Earl of Chichester, and others, most of whom did business at remunerative figures. Owing to the prevalence of foot-and-mouth disease Messrs. Stock, of Lewes, and Knight, of Brighton, veterinary officers appointed by the local authority, inspected every pen of sheep brought into the fair, and also all stock, and reported everything free from disease. The following table shows the numbers and the range of prices for sheep and lambs for the last thirty years :

	Numbers.	Sheep.		Lambs.	
		s.	s.	s.	s.
1840...	30,000	24	to 42	17	to 26
1850...	28,000	20	to 35	15	to 25
1855...	30,000	25	to 42	15	to 25
1859...	28,000	32	to 50	21	to 30
1860...	30,000	30	to 40	14	to 30
1861...	30,000	31	to 45	19	to 31
1862...	28,000	31	to 45	19	to 31
1863...	24,000	27	to 47	24	to 36
1864...	24,000	30	to 42	17	to 32
1865...	16,500	35	to 52	23	to 40
1866...	23,000	30	to 58	28	to 40
1867...	29,000	32	to 48	18	to 34
1868...	36,000	20	to 41	14	to 26
1869...	34,000	24	to 48	18	to 30
1870...	29,000	27	to 46	16	to 31
1871...	21,000	35	to 66	25	to 46
1872...	24,000	40	to 72	26	to 48

THE BINGLEY HALL SHROPSHIRE SALE.—

This was the largest sale ever held in Birmingham, when Messrs. Lythall and Clarke's catalogue included upwards of 200 rams, and nearly 1,000 ewes. Mr. E. Lythall's lot came first, and averaged over 15 guineas each. The three prize winners at Warwick made 36, 30, and 15 guineas respectively; the latter being let. The rams of Mr. Yates went at from 6 to 13 guineas each; Mr. Nock let one at 25 gs.; the remainder at 26, 15, 13, down to 8 guineas. Lord Wiloughby de Broke's rams went at from 7 to 10 guineas; the average, including let sheep, being 8 guineas. Mrs. Beach's rams made from 12 to 34 guineas; the sold sheep, several averaging between £20 and £21; and the let ones 15 guineas each. Mr. Pilgrim's sheep sold at a fraction under £10 each; which figure was nearly doubled for the next lot, the property of Mr. H. J. Sheldon. Lord Wenlock's rams sold at from 7 to 22 guineas, averaging just 12 guineas; one being let in addition. Lord Sudeley's first sheep, two-shear, fell to Mr. Gibbon, at 23 guineas; the residue of this lot selling at 7, 10, 11, 12, 13, and 14 guineas each, and making over 10 gs. average. Mr. C. Stubbs' animals sold at from 10 to 14 gs. each. Mr. Clare's rams went one at 21 guineas, and the others at from 7 to 11 guineas. Mr. Pulley's rams went at prices ruling from 11 to 17 guineas. For the ewes there was a demand. Mr. Yates's 75 went at from 70s. to 115s., four pens making 100s. and upwards. Mr. Nock's reached 160s., at which price Mr. Firminstone secured the best pen. Lord Wiloughby de Broke's averaged 60s.; Mrs. Beach's 122s. 6d.; Mr. E. Lythall's 72s.; and Mr. S. C. Pilgrim's from 75s. to 100s., averaging 87s. Mr. Sheldon's made the same average. Lord Wenlock's made from 90s. to 125s.; Mr. Lor's 70s. to 72s. 6d.; Mr. Glover's 66s. to 75s.; Messrs. Tolefree's an average of 84s. 6d. each; Mr. Clare's averaged 89s.; Mr. Tidy's made 100s.; Mr. Jenkins's made from 70s. to 75s.; Mr. S. Ashton's from 67s. 6d. to 72s. 6d.; Mr. Endall's 62s. to 66s.; Mr. N. Dodd's 64s. to 67s.; and Mr. King's 69s. to 73s.

MR. COMPTON'S HAMPSHIRE DOWNS.—For a pen of ten Down four-teeth ewes the price of 106s. was given by Mr. Fowler, of Ridge, this being one of the highest prices, if not indeed the very highest price, obtained this season. The Hampshire Down two-teeth ewes brought 79s.; ten ditto were purchased by Mr. Attwater for 67s.; several tens of ditto brought 80s., 78s., 77s., 76s., 75s.; several tens of four-teeth ewes brought 84s., 81s., 76s., 74s., and 71s. The highest price obtained for six-teeth ewes was 79s., the next prices being 76s., 74s., 73s., 72s., 71s., and 70s. The highest figure reached for chiver lambs was 97s. for a pen of ten, the nearest prices to this being 58s., 56s., 51s., 49s., 48s., and 47s. A pair of Hampshire Down ram-lambs brought 130s., a second pair 115s., and a third pair 105s.; one ram brought 85s., another 84s., and another 73s. The following high averages were obtained: Two-teeth ewes 71s. 4d. per head, one lot fetching 97s.; four-teeth ewes 71s. 6d., one lot fetching 106s.; six-teeth ewes 68s., one lot fetching 79s. The pedigreed Short-horned cows had a fair sale, bringing per head respectively 42, 36, 28, 22, 18, and a roan bull-calf 36 guineas; a Short-horn heifer-calf brought £22.

SHROPSHIRE SALE AT SHREWSBURY.—Messrs. Lythall and Clarke held their sixth sale in the Smithfield, Shrewsbury, when fifteen rams from Messrs. Morris were sold at 5 to 8 guineas each; sixteen from Mr. D. R. Davies, at similar figures; and ten from Mr. Tanner, at from 7½ to 26 guineas, three being let at 13, 12, and 8½ guineas, with a reservation that two of them shall be shown at Ludlow on the 7th proximo. Mr. R. O. Lyecester sent a dozen sheep, a five-shear, bred by Mr. D. R. Davies, made 15 guineas; the second, 19 guineas; and the others from 13 guineas downwards. Mr. T. Nock's six made from 10 to 17 guineas; and the last lot of rams, Mr. E. Lythall's, went at from 9 to 20 guineas. A lot of ram-lambs of Mr. Mort's averaged 4 guineas, one making £6. The ewes of Messrs. Morris and Mr. Tanner were bought up at high figures; the first lot ranging from 67s. 6d. to 91s., and the second 70s. to 75s. Mr. Nock's made 73s. each; Mr. Child's 64s.; and a pen of Mr. R. O. Lyecester's 125s. each. Amongst the purchasers were Lord Combermere, Lord Hill, Sir John Chetwode, Messrs. Boden, Groves, and Charlton.

MR. BROOK'S SOUTHDOWNS AND SUSSEX STOCK.

—The sales were as follows: Top price for two-tooth South-

down ewes 76s., to Mr. J. Pitcher; for the four-tooth ewes 85s., to Mr. V. Elan; for six-tooth 62s., to Col. Lane; for full-mouthed ewes 39s., to Mr. Gorringe; a six-tooth ram bred by Mr. W. Ashby, of Eastdean, made 16 guineas, to Mr. B. Waters. For pigs Mr. J. Ticknor gave the highest price, £6 10s.—The sale of the Sussex herd took place on Thursday. The average price realised by the cows was 23 guineas per head, and of two-year-old heifers 29 guineas; the calves realised an average of 12½ guineas. The highest price given for a cow was 26½ guineas, for a heifer 40 guineas, and a calf 17 guineas. "Charley," a pure-bred Sussex yearling bull, of the Gillhope herd, fetched 45 guineas. Sussex oxen (12½ pairs), realised high prices, averaging 38 guineas per head. Mr. J. Pitcher gave the highest price, 82 guineas, for a pair. A dozen working horses were also sold.

SALE OF MR. HUMPHREY'S SOUTHDOWNS.—This flock was disposed of at auction by Challen and Son, of Storrington. The rams did not command a high price, owing to the lateness of the sale, which was unavoidably postponed. The six-tooth ewes for several pens realised over 100s., some as high as 125s. The four-tooth brought as high as 126s.; the two-tooth almost equally good prices. The stock lambs from 43s. to 56s., the rams from 5 to 21 guineas, and ram-lambs from 3 to 21 guineas. Mr. G. C. Carew-Gibson was the purchaser of some of the choicest pens of ewes, as well as the highest priced rams. Lord Sondes secured the best ram-lamb.

THE SHROPSHIRE SALE AT COPPENHALL.—Of the 29 rams offered a two-shear made 19 guineas; and another of the same age, 18 guineas. The shearlings ranged from 30 guineas to 5½ guineas. The average was about 11 guineas. Some little indication of foot-and-mouth disease having manifested itself amongst the ewes, it was deemed expedient that they should not be brought into contact with the rams. Upon the first lot entering the ring, it was stated that they would be sold conditionally on being passed by the inspector, and the prices, consequently, ruled low, viz., from 60s. to 81s. per head, averaging 72s. 6d.

THE LICHFIELD SHROPSHIRE SALE.—Upwards of eighty rams and 1,000 stock ewes were offered; several lots being kept back from foot-and-mouth disease. Rams of good pedigree sold at from 10 to 20 guineas each, and ewes met purchasers at 70s. to 80s. per head; the average of the whole lot being a trifle under 70s. per head. Those of Colonel Dyott, Colonel Lane, Messrs. Landor, Lowe, Holland, Brawn, Peake, Mills, and German were much sought after.

WEST-COUNTRY LINCOLNS.—At Mr. Cardell's Lincoln ram sale, at Truro, the prices ranged from £3 5s. to £15. The highest price sheep clipped 24lb. of wool on the 6th of April, and was purchased by Mr. Drakes, of Warbstow, near Launceston.

THE CORTON FLOCK.—This flock, consisting of upwards of 1,200 ewes and lambs, with a few rams, the property of Mr. Henry Hole, was brought to the hammer on Monday. The prices for ewes ranged from 73s. to 61s.; the full-mouthed making 71s. to 65s.; the six-teeths from 57s. to 44s.; chilver lambs from 54s. to 45s.; wethers 49s. to 50s. The average of the entire flock being as follows: Full-mouthed ewes £3 6s. 10d.; six teeth ewes £3 1s.; chilver lambs £2 8s.; wether lambs £2 9s. 6d.

HAWICK TUP FAIR.—At this old-established and important market for the sale of Cheviot and Leicester rams, a considerable number of rams were shown in the private pens, but as a whole, they were inferior in quality and were chiefly sold to butchers. The chief attraction of the fair was the Cheviots. A finer lot of animals has seldom been shown, and great interest was taken in the competition for the highest prime lots. The prices were on the whole equal to last year's market. Mr. Borthwick, of Georgefield, paid £56 for one of the Hyndhope rams. For the Leicester rams the biddings were rather heavy.

ALYTH RAM AND GIMMER SALE.—Mr. Scott's, of Burnside, annual sale of rams and gimmers took place, on Monday, on the estate of Burnside, about two miles west of Alyth. The average was £6 10s. per head, and the highest price £10. The ewes sold from £55 to £70 per head.

SHROPSHIRE SHEEP.—The last great sale took place on Tuesday at the Mart, Shrewbury, when about 100 rams and 650 ewes were sold by auction by W. G. Preece. The rams made tolerably good prices.

ALDERNEYS.—Mr. W. G. Preece had a sale at the Raven, on Saturday, the cattle being imported by Mr. P. H. Fowler. The animals were all of pure breed, and in good condition. They averaged about 25 guineas each.

SHEEP SALE AT CRAIGNESTON.—There was a large concourse of purchasers, including several from a distance. The sale commenced about one o'clock, and 2,339 sheep and lambs were disposed of in little more than two hours, after which 40 queys were sold. There was a brisk competition, the stock having obtained a high reputation, and, speaking generally, being in first-class condition, a considerable proportion of the older sheep being quite fit for the fat market. Prices, in sympathy with the reaction so unmistakably manifested at Thursday's Lockerbie, were considerably down on recent currencies, but were nearly if not fully equal, all over, to those obtained at last year's sale. In point of fact they must still be considered high, the feeling being universal that sheep are by far too dear. The following is the result of the sale of sheep and lambs: 250 half-bred lambs £898 5s., 307 black-saced ewe lambs 292 7s. 6d., 180 Cheviot gimmers £340 10s., 1100 Cheviot ewes £190, 140 ditto milled £250, 320 black ewes £431 10s., 20 cheviot eild ewes £49 10s.; 20 black-faced eild ewes £39 10s., 602 blackfaced wethers £1,315 14s. 6d.—Total number, 2,339; £3,807 7s. At last year's sale 997 lambs and 1,304 sheep—in all, 2,301—realized £3,742. At Friday's sale 756 lambs and 1,382 sheep brought £3,807 7s.

RAM SALES AT GLOUCESTER BARTON FAIR.—Mr. J. Villar sold 170 rams and ram-lambs from the folds of Messrs. Hardy, Browne, Cole, W. Jones, J. Brookes, W. Peachey, A. Edmunds, and J. Garne, at prices ranging from 5½ to 16 guineas, the average being £6 16s. Mr. Villar also sold Oxford Down sheep from the flocks of Messrs. C. Hobbs, F. Gillett, and G. Wallis, at from 5½ to 16 guineas, and also ram-lambs from the same flocks at an average of 4 guineas. Eight Shropshire sheep from the flock of Lord Sudeley were sold at an average of £6 3s. Mr. G. H. Minnet sold 12 pure-bred Sussex Downs for Colonel Kingscote at an average of £4 14s. 6d., and 7 Cotswold shearhogs for Mr. G. R. J. Nickols, at £7 15s. 6d. Messrs. Moore and Hill sold 14 rams for Mr. E. Fowler, of Aston Farm, at an average of £3 14s. 5d.; seven for Mr. Blackwell at an average of £7 7s.; six from Messrs. Fowler at an average of £8 5s.; eight from Mr. H. Howell at an average of £7 15s.; six from Mr. T. Butt averaging £6 9s. 6d.; ten from the Royal Agricultural College at an average of £9 4s. 1d.; and ram-lambs sold by them at from 70s. to £5 17s. 6d. Messrs. Acock and Hanks sold eight rams from the flock of Mr. Humphris at £6; and nine from the flock of Mr. J. Walker at £11 17s.

RAM SALE IN PENRITH.—One of the most important ram sale that has taken place in Cumberland, this season, was held at the Penrith Auction Mart, on Tuesday last. Mr. Joseph Bell, of Scale Hill, the noted breeder of pure Leicester Sheep, realized for his shearing tups and two-shear from £4 15s. to £10; Col. Rigg, of Crossrigg Hall, £5 10s. to £7 5s.; Mr. John Davidson, of Greengill, £5 15s.; Mr. Savage, of Hanging Bank, Bolton, £4 to £7; Mr. J. B. Dixon, of Templesoverby, £3 5s. to £7; Mr. Teasdale, Hunsonby, £6 to £7; Mr. T. Varty, Stagstones, £2 7s. 6d. to £5; Mr. W. Sisson, Templesoverby, £3 to £5; Mr. G. Dobson, Williamsgill, £3 to £4 5s.; Mr. W. Hullock, of Brigham Bank, £2 5s. to £2 12s. 6d.; Mr. T. Nelson, Great Salkeld, £1 17s. to £2 2s. 6d.; Mr. Jabez Crosby, Kirkbythorpe, £5 15s. to £8; and Messrs. Cookson and Strickland, Low Abbey, £5 5s. to £6 15s. For his border Leicester tup lambs Mr. Thom, of Kirkbythorpe, realized from £2 to £6; Mr. Richard Harrison, of Newbiggin, for his Leicester shearlings, Leicester tup lambs, and Oxford Down shearlings, £3 7s. 6d.; and Messrs. J. and J. Fenton, of Frenchfield, for six Oxford Down tup lambs, £2 to £2 9s. In all there were 150 rams passed through the ring, and the average prices for which ranged from as low as £1 17s. to as high as £10. This was the first of a series of sales of the kind intended to be held during the present season.

THE TIXALL FLOCK OF SHROPSHIRE.—The Shropshire sheep and other stock of Mr. Warner, of Tixall, who is declining farming, took place at Stafford on Monday. The sheep numbered upwards of 500, and satisfactory prices were obtained. Some fetched £5 12s. 6d. per head, and the remainder sold at an average of £4 each. The pedigree dairy stock realised good prices, about 30 guineas each being given.

ALNWICK LEICESTER RAM SALE, Oct. 1.—To-day

being the October Fair, Messrs. Donkin and Son held their annual sale of rams in the market-place. The sale might be termed a dull one, owing no doubt to the numbers offered being in excess of the demand. Several lots were purchased by the agent of the Earl of Durham, and some of the best tups offered were bought for exportation to Australia.

BERWICK AUCTION MART, Sept. 30.—Messrs. Donkin have had a good supply of stock. Fat cattle 32, fat sheep 630, draught ewes 120, tups 6. The demand was good for prime quality, whilst for half-finished beef there was a slow sale, fluctuating between £16 and £24 5s. for small steers and heifers. Best beef 10s. 6d. per stone, mutton 9½d. per lb. Shearlings ranged between 52s. and 71s., ewes from 50s. to 68s., half-bred draught ewes 50s. to 59s., rams £4 10s. to £5 15s.

HEXHAM ANNUAL RAM SALE.—Mr. Wm. Cook held his third annual sale of rams on Tuesday last, when he had a large entry of rams and other breeding sheep to offer for unreserved public sale—viz., Leicester rams, tup lambs, shearing gimmers, and gimmer lambs, also a few blackfaced rams and tup lambs. The attendance of purchasers and others was very large, the mart being crowded. The highest prices were obtained by Messrs. Dinning, of Nilstone Ridge, who sold 23 Leicester rams, one of which fetched £15 15s., the average price being £7 4s. 7d.

MORPETH AUCTION MART, Sept. 30.—There has been an excellent sale here to-day. Beef realized from 10s. to 10s. 3d. per stone; mutton, 9d. to 10d.; lamb, 9d. to 9½d.

ROTHBURY AUCTION MART, Sept. 30.—To-day, Messrs. Donkin held a special sale of 1,000 mule lambs from Falloweas and Redpath. Trade was considerably heavier, and although every lot was sold, a decline of fully 2s. per head took place upon late rates. Falloweas wethers made from 22s. 6d. to 25s. 6d.; Redpath wethers from 21s. 8d. to 23s. 6d.; Falloweas ewes, 21s. to 22s. 6d.; Redpath ewes, 22s. to 22s. 9d.

SALE OF EWES AND LAMBS AT BRAMPTON.—A large sale of Cheviot and black-faced ewes and three-parts-bred lambs took place by auction at Brampton on Wednesday last. The greater portion of the ewes were the annual drafts from the pastoral farms of Tarnhouse and Geltsdale, in the immediate neighbourhood, and had not been used for breeding half-bred or cross lambs. The following averages were made: 200 Geltside Cheviots, £1 16s. 9d.; 299 Tarnhouse Cheviots, £1 12s. 11d.; 100 Geltside black-faced, £1 13s.; 60 Tarnhouse black-faced, £1 7s. 6d.; 200 Cheviot ewes from Askerton only brought an average of £1 5s. 9d. 120 three-parts-bred lambs, bred by Mr. Taylor, of Lowhouses, sold at an average of £1 17s. 10d. 28 black-faced ewes, belonging to Mr. Sutton, obtained an average of £1 2s. 7d.

SALE OF MR. MARSHALL'S STOCK AT BOLNEY.—There was as large an assemblage of stock as on the occasion of the sale of the herd of pure-bred Sussex, Alderney, and other stock belonging to Mr. Marshall. The sale commenced with the Sussex cows, of which there were 15. Mushroom, dam Maiden, sire Marmaduke, 7 years old, was bought by Mr. Broad for 24 guineas; Dairymaid, dam Dorres, sire Marmaduke, 7 years, 28½ guineas; Mr. Wood; Mistletoe, dam Christmas, sire Mr. Botting's Midsummer, 6 years, 46 guineas; Mr. Smith; Rarity, dam Rosebud, sire Midsummer, 6 years, 35 guineas; Mr. Campion; Berry, 5 years, dam Beauty, sire Midsummer, 5 years, 53 guineas; Mr. Potter; Trusty, dam Thrush, sire Midsummer, 5 years, 35 guineas; Mr. Brown; Waxey, dam Welcome, sire Midsummer, 5 years, 42 guineas; Mr. Turvill; Vanity, dam Violet, sire Midsummer, 5 years, 26 guineas; Mr. Paris; Maize, dam Maiden, sire Emperor, afterwards Young Westmeston, bred by Mr. Martin, 4 years, 32 guineas; Mr. Turvill; Greek, dam Greek, sire the same, 4 years, 23½ guineas; Mr. Neame; Dash, dam Greek, sire Shermanbury, bred by Mr. Martin, 3 years, 39 guineas; Queen, dam Queen, sire Shermanbury, 3 years, 31½ guineas; Mr. Brook; Whitebait, dam Welcome, sire the same, 3 years, 40 guineas; Mr. Neve; Burrell, dam Berry, sire A. Noakes' bull, 3 years, 51 guineas; Mr. Campion; Damsel, dam Dotte, same sire, 3 years, 33 guineas; Mr. Turvill; the whole 15 realising £567, being an average of nearly £38. The yearlings from these cows fetched: Steer from Mushroom, by Sir William, a bull bred by the late Mr. Botting, of Westmeston, 11½ guineas, sold to Mr. Harwood; steer from Dairymaid same bull, 19½ guineas; Mr. Smith; bull-calf from Mistletoe, same bull, 35 guineas; Hon. H. Brand; heifer from Rarity,

15 guineas; Mr. Campion; heifer from Berry, 26 guineas; Mr. Potter; bull-calf from Waxey, 29 guineas; Mr. Paris; steer-calf from Vanity, 13 guineas; Mr. Brook; steer-calf from Maze, 17 guineas; Mr. Turvill; steer-calf from Greek, 16 guineas; Mr. Turvill; heifer from Fairmaid, ditto, 20 guineas; Mr. Neame. The whole of these calves were by the same bull, and averaged a trifle over £21. Eight two-year-old heifers realised 250 guineas, being an average of £32 16s. No. 7, with calf by side, fetched 45 guineas; No. 4, 40 guineas; No. 6, 32 guineas; No. 1, 35 guineas; No. 2 and 8, 25 guineas; No. 5, 28 guineas; and No. 4, 20 guineas. There were also eight yearlings and weaners sold as under. A yearling, by Whitebait, 22 guineas; a one-year, by Greek, 32 guineas; by Diamond, 30 guineas; by Fanny, 32 guineas; and by Mistletoe, 29 guineas; a yearling, by Damsel, 21 guineas; one-year, by Maize, 32 guineas; and by Fanny, 30 guineas, making a total of 215 guineas, and an average of a trifle over £28 5s. Four pair of yearling steers fetched 53, 45, 44, and 39 guineas; a pair of weaners 31 guineas; and three ditto 49 guineas. The Sussex bull, Westham, two years, dam Fanny, sire Priesthaves, was bought by Mr. Woodroffe for 33 guineas, and Khedive, two years, dam Fairmaid, sire Young Westmeston, was also sold to Mr. Davey for 32 guineas, making the total amount of the 56 pure Sussex included in the sale £1,608 12s. The dairy consisted of 13 Alderney cows, that realised in all £265. The Alderney bull, The Count, bred by Mr. G. A. Fuller, of the Rookery, Dorking, Surrey, 30 guineas; Mr. Dumbrell. There was also a sale of mixed-bred yearlings and steers.

ABBOTSTONE STOCK SALE.—The sale of stock of Mr. T. H. Redman, who is quitting, took place on the 25th inst. The highest price for two-tooth ewes was 68s.; there being no four-tooth ewes, the six-tooth ewes were next brought into the ring, and reached as high as 80s., 78s., 72s., 70s., 68s.; the full-mouthed ewes then followed, and were disposed of at 69s., 67s., 66s., &c., per head. The ewe-lambs fetched 59s. The competition for the wether lambs was not brisk, the highest price being 57s. The horses went as high as 78 gs., 75 gs., 73 gs., 60 gs., 44 gs.

SALE OF STOCK AT GORDON CASTLE.—The annual sale of stock belonging to His Grace the Duke of Richmond took place at the home farm on Thursday. Eleven handsome bull-calves were knocked out at satisfactory prices, the average being rather over £39. Seven cows and nine heifers were brought forward after the bulls had been disposed of, on the whole at good prices. The sheep consisted of 100 Leicester ewes and gimmers, and 50 Leicester rams; the former being put up in lots of five, and the latter singly; in many cases high prices were given. The tups averaged about £2 18s., and the rams about £6 17s.

On Friday Messrs. Pye and Sunderland brought under the hammer a draft of Hereford cattle and other stock from the home-farm at Dulas Court, the property of Colonel Feilden. The sheep crosses realised fair prices, the averages being for wether lambs 49s., ewe 50s., draft ewes 53s. per head. The pigs also realised good but not fancy prices. Of the cattle 40½ guineas was given for Truth the Second for Sir J. Bailey; Broad-guage, a young bull, went to Mr. George, of Felton, for 80 guineas, and also a heifer, Mirth the Second, for 19 guineas; Chieftain Hope fell to the bid of Mr. E. J. Lewis for 33½ guineas, and her bull-calf went to Mr. Davies, of Wormbridge, for 10½ guineas; T. L. Brewer, of Newport, gave 28 guineas for Truth, and her bull-calf realised 25 guineas. Mr. A. Doyle was a large purchaser, and Messrs. Grundy, Berrow, and others were buyers of the fat animals. The bull Dulas reached the sum of 100 guineas; but it is doubtful whether he was actually sold.

SALE OF THE DUKE OF BUCCLEUCH'S STOCK.—At the seventh annual sale, on Drumlanrig Home Farm, twenty Galloway bullocks, three years old, were sold in pairs at prices varying from £22 to £28 each—the average being £24 4s. 6d. Six Galloway heifers, two years old, were sold from £19 to £20 5s.—average, £19 10s. Ten cross heifers were next sold, at prices ranging from £17 10s. to £20 10s.—average, £19. Two fat Ayrshire three-year-old heifers sold at £18 15s. each. Fourteen Ayrshire heifers, to calve in October or November, ranged from £14 10s. to £20 5s.—average, £16 18s. 9d. Mr. Duun, Cumberland, bought three at £20 5s., £21, and £16 10s. Twenty-five Ayrshire heifers, to calve in May, 1873, were sold in pairs, and fetched from £10 2s. 6d. to

£13 15s.—average, £11 11s. 8d. Seven calves brought £7 15s., being an average of £1 2s. 1d. each. Twenty-five fat pigs sold in couples, at from £4 2s. to £7 7s. each—the average being £5 3s. 11d. 370 east Cheviot ewes sold in twenties, and realized 27s. to 41s. 9d. each; averaging 36s. each. Last year's average of 220 was fully 39s. Twenty-five fat eild ewes were sold in lots of five, and realized from 43s. 6d. to 54s. 9d. each—average £2 9s. 1s. Fifty-three Cheviot gimmers were sold—21 to Mr. Hyslop, Barr, Keir, at 25s. each; 21 to Mr. Austin, Newbridge, at 25s.; 6 to Mr. J. Kellock, Thornhill, at 22s.; and 5 to Mr. Kellock at 18s. 3d. The twelve half-bred lambs which took the first and second prizes at the Thornhill show were sold to Mr. Brown, Ellerslie, at 45s. 6d. and 51s. each. Forty black-faced wethers were disposed of in lots of five at from 26s. to 43s. 6d. each—average nearly 36s. 167 Cheviot ewe lambs were quickly disposed of at prices varying from 12s. to 16s. 6d. each—average 15s. 9d. Total of sale; Cattle, £1,407 5s.; swine, £129 18s.; sheep, £1,001 15s. 6d. Total, £2,539 18s. 6d.

MR. HEWER'S HEREFORDS.—Mr. Hewer, of Vern, Marden, being about to leave the estate, Mr. W. G. Preece, of Shrewsbury, brought under the hammer the whole of his stock, consisting of 45 bulls, cows, and heifers. The first lot offered was Gipsy Girl, an 1863 cow, by Severn, which fetched 55 guineas. Lofty, by Lord Lincoln, and Rosy, by Avenger, the one an 1867 and the other an 1868 cow, were knocked down at 50 guineas each; the latter's bull calf, by My Lord, fetching 42 guineas. A yearling heifer, Lady Emily, by My Lord, went for 40 guineas. Among the bulls, Lord Lincoln (calved 1863), sold for 62 guineas; Above All (1867), for 55 guineas; and Archduke, a calf just over 12 months old, 63 guineas. Some of the other male animals realised good prices.

SALE OF SUFFOLK STOCK AT GEDGRAVE, BY MR. R. BOND, THE PROPERTY OF MRS. CRISP.—The highest price was for Venus, a three-year-old Suffolk filly, which Lieut. Col. F. M. Wilson bought for 100 gs. Mr. J. Grout bought a five-year-old bay riding gelding for 88 gs. On the second day the stock and sheep were sold, the cows averaging £18 10s. each, the highest price being £25, and the 77 head of store beasts averaging £15 10s. The highest price given for two shear grey-faced ewes was 73s. 6d., Mr. E. C. Moor being the purchaser, and the average was 70s., whilst dark-faced down two-shear ewes averaged 63s. A black Suffolk sow made 12½ gs., and other pigs 12 gs., 11 gs., and 10 gs. each.

MR. W. PLAYNE'S SHORTHORNS were sold at Long-fords, Minchinhampton, Gloucestershire, by Moore and Hill. Twenty-nine Shorthorns averaged £32 8s. 1d. each, and a total of £939 14s. 6d.

ABERDEEN.—At Mr. John Duncan's sale on Saturday, supplies were large, consisting of 143 fat cattle, 250 sheep and lambs, 43 pigs, and 6 horses and ponies. Trade good for the best description of cattle, at from 78s. to 80s. per cwt. Middling sorts were rather difficult to sell, in consequence of the large number of secondary quality coming in. Mutton, top, 8d. to 9½d. per lb., secondary, middling, and inferior 6½d. to 7½d.; pork, 5s. 3d. to 7s. per stone. A large number of the best class of stots selling from £25 to £30 10s. a-head; smaller sorts £16 to £24 10s., queys £14 10s. to £20, and up to £26 10s., cows £8 10s. to £18, and up to £25, six bulls £22 10s. to £35. The best class of hoggs 57s. to 65s., smaller sorts 35s. to 52s. 6d., large pigs 80s. to 145s., small 20s. to 50s. There was the usual large attendance of buyers, and a clearance effected.

HADDINGTON.—On Monday both sheep and cattle were in good demand, at the following quotations: Beef 12s. to 13s. 6d. per Dutch stone; mutton 8½d. to 9½d. per lb. The best class of cattle sold from £20 to £27 17s. 6d., secondary £16 to £19 10s. A milch cow at £12; half-bred dimounts 52s. to 64s.; greyfaced do. 46s. to 53s.; half-brd ewes, 50s. to 62s. 8d., Cheviot 34s. to 58s., blackfaced 25s. to 48s., lambs 16s. 9d. to 38s.

MR. WELSTED'S SHORTHORNS, AT BALLY-WALTER, CASTLETOWNROCHE, CORK, BY MARSH AND SON.—Thirteen well-bred young bulls were sold at the following prices: Cherry Prince, Lord Lismore, 40 gs.; Lord Mayor, Professor Baldwin, per Glasnevin School, 46 gs.; Crown Diamonds, Lord Lismore, 40 gs.; Emerald Prince, J. Beecher, 37 gs.; General Grey, Mrs. Hungerford, 35 gs.;

Red Prince, Lord Lismore, 52 gs.; Prince Frederick, Lord Doneraile, 38 gs.; Sir Walter, Mr. Benn, 29 gs.; Prince of the May, Mr. Litchfield, 26 gs.; Trumpeter, Mr. Hewson, 28 gs.; Royal Oak, Mr. Ahern, 17 gs.; Prince Oswald, Capt. C. Croker, 16 gs.; Golden Fisher, G. Hewson, 24 gs.

SALE OF MR. P. EDEN'S PIGS.—By Mr. Dodds, of Wakefield. There were 87 lots, some of which, however, were absent. Many of the animals were prize-takers at Royal shows. The highest price was for Young Giantess, a sow of the large breed, littered in May, 1871, 34 guineas having been realised for her, to Mr. Lockwood, Chester. 15, 16, and 19 guineas were made for others, and from 8 to 12 and 13 was a common price. The amount received for the whole lot was over £500. Among the principal buyers were Mr. Statter, Manchester; Mr. Lockwood; Earl of Lonsdale; Mr. Gibbon, Carlisle; Messrs. Duckering; Mr. Ford, Staffordshire; Earl of Balcarres; Major Staplyton, Myton Hall; the Earl of Zetland; and Mr. Bowstead, Penrith.

We would call especial attention, in the way of example, to a movement on the part of the Lincolnshire Agricultural Society, which has just subscribed £100 towards the expenses of the Royal Agricultural Society, incurred in defending the late action at Leeds. The steps since taken by "The Trade" itself serve to show how much good must result from such an inquiry, and we would suggest that every Agricultural Society in the kingdom should subscribe according to its means.

YORKSHIRE AGRICULTURAL SOCIETY.—At the Council on Thursday in York, the Earl of Faversham in the chair, there was a very numerous attendance. The Secretary, Mr. T. Farrington, reported on the income and expenditure of the year. Some formal votes of thanks were passed. It was decided that in future the Society's show shall be held in the three Parliamentary divisions of the West Riding, instead of in the Northern and Southern divisions as heretofore. The Council then heard the report of the Analytical Chemist of the Society (Mr. Thomas Fairley, of Leeds), for the quarter ending Sept. 30, 1872. This stated that during the past quarter a smaller number of analyses had been received than in the two previous quarters (in the first quarter there being eleven, and in the second eighteen). Considering the season this was no doubt to be expected. The analyses received had been—Linsed cakes, 2; limestones, 2; and waters, 3; or a total of 7. The linsed cakes were two additional samples connected with the late trial, previous samples of which he had already described in his report of March last. The limestones were analysed for drinking purposes, and the waters as to quality and fitness for ordinary domestic use. The protest of Mr. Ellerington, of Beverley, against the award of the judges in class 37 was entertained, and Wildman, exhibited by Mr. Armstrong, was disqualified for the third prize. It was decided that Honeycomb, objected to by Mr. Isles, was entitled to the prize in class 57. The Council then heard the objection of Mr. H. Jewison, of Raisthorpe, to Newsmonger, in class 63, and decided that the objection was not valid. [Nothing appears to have been done as to amending the conditions of entry as to pedigree.]

TENANT-RIGHT.—At a meeting of the Cheshire Chamber of Agriculture at Crewe on Tuesday, the Hon. W. Egerton moved: That this Chamber considers it necessary for the proper security of capital engaged in husbandry that an outgoing tenant should be entitled to compensation from the landlord or the incoming tenant for improvements he has made with the previous consent of the owner, and from which he has received no proportionate benefit, with respect to drainage and other improvements of a permanent character; and that the landlord should be paid by the outgoing tenant for dilapidations and deteriorations caused by the neglect of the tenant; the amounts respectively due to be determined by valuation. Mr. Latham moved, as a rider to the resolution: And that where no contract or agreement exists, the amount payable on either side should be capable of being enforced by arbitration. Lord De Tabley seconded the resolution and the rider, which were carried without dissent.

THE PRICE OF CART-HORSES.—At a sale of farming stock and implements belonging to the late Mr. G. W. Ullett, of the Manor House, Whaplode, several of the cart-horses made nearly £60 each.

SHORTHORNS WITHOUT PEDIGREE.

It will be seen from an extract which we subjoin, that, as we expected, the Americans are taking up the question of Shorthorn pedigrees, more particularly in respect to "the looseness of practice and disregard of the value of thorough breeding," which will admit of an animal being exhibited as a pure Shorthorn without the confirmation of a pedigree being attached to the entry. As we pointed out immediately after the last meeting, it is simply monstrous that a Society like the All-Yorkshire should countenance so suicidal a state of thing. In fact the whole business of entry requires a deal closer looking into, as we hear that an exhibitor of horses now declines to give anything but his name and address, and so sends what he pleases. The confusion, or something worse, which would gradually come of such "a system" is surely sufficiently manifest. With reference to the Cardiff case, Mr. Statter explains: "Being much engaged at the time my cattle went to Cardiff, I was unable to superintend them myself, and it was not until I was in the showyard on Monday morning that I discovered Lady Ann had been sent instead of Lady Dodona. I wrote to the Secretary and explained the mistake, hoping that explanation had been satisfactory and required no further comment. I am fully aware it was carelessness, and I justly deserve to forfeit the prize. I cannot see how this circumstance can have been looked upon as intentional, when only a few days before Lady Ann was exhibited at Doncaster, where her age was stated, and where she took first prize." Admitted that the description of Lady Ann is correct, how still stands the pedigree of Lady Dodona, which is given in full, although her breeder is unknown? It is of course of equal importance to have reliable pedigrees for breeding stock as for show animals.

In a recent issue we briefly called attention to the case of Mr. Charlwood's three-year-old heifer "Matchless," to which, although without pedigree, was awarded a prize at the Yorkshire (England) show over pure-bred Shorthorns. Such an award betrayed a looseness of practice and a disregard of the value of thorough breeding, entirely unexpected from intelligent judges right in the home of this noted breed of cattle. Of all the breeders in the world the English are the last who can afford to lower the standard or weaken the prestige of Shorthorn pedigrees. We Yankees, who are given to short cuts and are not much wedded to sublimity things merely because they may claim an existence from "time immemorial," might be excused for want of respect for genealogical trees pertaining to either the human family or brute creation—in fact we do not take kindly to heraldry anyhow—but for a John Bull, and especially the Shorthorn John Bull, to permit pedigree to be lightly valued or passed over entirely in a Shorthorn showing, is a clear case of *scan. mag.* And, as if the outrage we mentioned before were not enough, *The Mark Lane Express* of 26th ult. comes to us with the notice of two or three others equally worthy of remark, by Americans purchasing Shorthorns in England, and who would avoid any but those of the genuine blood. While we in America are splitting hairs over the descendants of "Mrs. Motte," the "Importation of '17," and the "Matchem Cow," some of our British cousins, it seems, are inclined to devote themselves to "thoughtful selection" rather than to an adherence to unbroken family lines of descent. *The Express* refers to these other instances of departure from the hitherto accepted rules of competition.—*Prairie Farmer.*

HEXHAM FARMERS' CLUB.—The following subjects have been selected for discussion: Oct. 8, The Transit of Cattle by Land and Water, in relation to Disease; introduced by Mr. G. Hedley. Dec. 10, Our Home Food Supplies; Mr. J. W. Wilkinson. Jan. 14, 1873, Impediments to Agricultural Progress; Mr. C. G. Grey. Feb. 11, Manures; Mr. J. Spiers. March 11, Sheep Dips; Mr. R. Hall, V.S. April 8, Parliamentary Measures bearing on Agricultural Interests.

A CATTLE-SALE CASE.

At the Perth Sheriff's Court a case of some importance to farmers and cattle-dealers has been decided by Sheriff Barclay. The pursuers are Messrs. Macdonald and Fraser, Perth Auction Mart, and the defender, James Christie, miller, Huntingtower. The following is the interlocutor, which sufficiently explains the case: The defender admits purchase of the cow labelled, at the pursuers' mart, on the 17th of May last, at £20 12s. 6d. It is proved that the owner of said cow was William Liddel, cattle-dealer, Denny. The said cow was removed and taken possession of by the defender without payment of the price. The pursuers remitted to the said William Liddel, on the day after said sale the proceeds of the sale of a number of cattle, including the price of the said cow purchased by the defender. The defender avers that the cow was sold and purchased as a milk-cow, and was diseased at, and prior to the date of sale, in consequence of which she died on 27th May in the defender's possession, of which intimation was made by the defender to the pursuers on the same day. The pursuers rest their title to sue solely on certain terms and conditions of sale, but of which conditions the defender denies all knowledge. Conditions of sale were exhibited in the inner apartment of the pursuers' mart or sale-rooms; but the clause on which the pursuers chiefly, if not solely, found their title was within the last year added to the original print, and it is not proved that the defender was made aware or was in the knowledge of said conditions, either in the original or amended shape. The clauses on which the pursuers found and pled their title to sue are the following: 1st, the clause, part of which was recently introduced into the print, and which is as follows: "All purchases must be paid for in cash promptly on demand to the auctioneers, and before being removed, and shall not be taken delivery of without an order from the clerk; and the lots will be at the sole risk of the respective buyers on being knocked down, but shall be held as not transferred to them until settled for, and if taken away in contravention of these conditions the auctioneers shall have power to bring back the same *brevis manu*. In the event of the auctioneers giving delivery of any lot without payment of the price, they shall be entitled to recover full payment from the buyer by action of law at their own instance, and no defence against such action will be competent on the ground of any defect, actual or alleged, of the lots sold, or of the same being disconform to special description or warranty, or otherwise, the buyer having no claim against the auctioneers, but only against the owner or consignor of the lot." 2nd. The other clause is as follows: "Consignments are at the owners' risk until sold. The proceeds shall be paid the day after the sale, but the auctioneers reserve power, should they consider it necessary, to retain in their hands for a reasonable time the price of any lots sold, without being in any way personally liable to the purchaser or consignor, and in the event of any lot not being settled for and taken delivery of by the buyer, the auctioneer shall be entitled to return the lot to the consignor instead of paying him the purchase-price." Finds, under these facts and circumstances, the pursuers have no title to sue this action in their own name, and thereby deprive the defender of his right to set up such defences as would be completely pled were the action at the instance of the owner of said cow, or with his concurrence and consent; therefore sustains the plea of no title, dismisses the action, reserving any action brought with proper instance, and the defences thereagainst. Finds the pursuers liable in expenses, allows an account thereof to be lodged, and remits the same to the auditor to tax, and decerns.—(Signed) HUGH BARCLAY.

THE LATE BIRMINGHAM HORSE SHOW.—A protest having been received against Gem of the Peak, winner in Class I., as a thoroughbred stallion, the same was referred by the stewards, under the regulations, to Captain Machell, who has decided that the horse was not qualified to compete. The prizes, therefore, go to the next horses in order of merit—viz., first, Mr. W. S. Cartwright's Thornapple; second, Mr. T. J. Merriek's Stockade. The Council passed the following resolution: "That, considering the unusual success of the Horse Show for 1872, and the exertions of the secretary (Mr. J. B. Lythall) in association therewith, the further sum of 20 guineas be awarded to him for this year."

THE HEXHAM FARMERS' CLUB.

CATTLE DISEASES AND TRANSIT.

At the first meeting of the season Mr. GEORGE HEDLEY read the following paper:—

As the prosperity and education of a people increase so does the demand for butchers' meat and other eatables, which twenty-five years ago would have been called luxuries. Such has been the case in Great Britain. An excellent authority, many years president of this club, a few years before his death said that the butcher's cart might be seen twice a week at every man's door, and it was fresh within his remembrance when the larders and the pantries of the middle and lower classes were only replenished twice a year at most, and that in the shape of beasts, commonly called marts, killed for the former, and quarters of beef supplied to the latter; these were cured and hung up the same as bacon is now, and constituted a bare supply all the year round. At that period foot-and-mouth disease was scarcely if at all heard of, and the best meat could be obtained for 4d. and 5d. per lb.; now it is upwards of twice that price, and our flocks and herds are periodically decimated by violent maladies, some of which we may at any rate attribute to importation from abroad. Many writers are inclined to ascribe the advance in price to increased population, and the very much greater taste for flesh commodities. This is only in part true, because as the demand has increased so has the capabilities of the land in improved culture to afford a supply; so also, has increased the intelligence of the British farmer in choosing the best flesh producing animals. Besides, the importations from abroad have multiplied to a great extent, in cattle, I believe, as much as 14½ times; and in sheep, 10½ times, since 1845—the year before imports were removed. In that year our importations were 16,833 cattle and 86,520 sheep; while in 1871 the numbers were respectively 247,426 and 917,077, besides about 86,000 swine. The numbers of our home-bred stock in the United Kingdom have likewise grown greater with the advance of years, for while in 1841 we had about 7,000,000 of cattle and 27,000,000 sheep, in 1871 our quantities were 9,346,216 cattle and 31,403,500 sheep. These supplies were to serve a population of 27,036,450 in 1841, and 31,817,108 in 1871. Hence, it will be observed that while the population and its desires for flesh meat increased, so did the supplies both at home and from abroad; therefore, we must look for something more than greater numbers of people and altered tastes to account for the exorbitantly high prices obtained for all kinds of butchers' meat. There are three things in recent years to account for this, viz., the visitation of rinderpest 1865-6, the prevalence of dry weather in '68 and '70, and the continual ravages of foot-and-mouth disease from then up to the present time, and which is more dreadful and devastating now than in any period of its history. We have obviously, then, had a great depletion to contend against since 1865, and it is only a fair and natural inference to draw, that if we could secure the health of our animals, we should in a year or two, with a bountiful supply of fodder, have meat down to a much lower price—even, I think, as low as 7d. per lb. We have had very rapid fluctuations in the prices of cattle before; I may instance one which many gentlemen present will remember. In the winter of 1846, I think it was, the price of the best beef, sinking offal, was 4s. 6d. per stone; in the summer of 1847 it was 10s., or rather more than double. By rinderpest, in 1865-6, we lost 254,000 cattle. In 1868 and 1870 many thousands of Cheviot lambs were slaughtered from off the hills, and sent to London and elsewhere for want of grass and turnips to feed them upon. These would weigh only about five pounds per qr., and which if kept over, as they generally were, would have made fifteen pounds per qr., and three times as much food for the people. Besides cattle were nearly all killed before they were half fat. In 1872, before the year is out, the losses from foot-and-mouth disease will be much greater than those sustained by rinderpest in 1865-6, and quite as great as those of the scorching and excruciating summer of '68 or '70, from want of pasturage. How then can this terrible malady be put a stop to? is a question which naturally springs to every one's lips. Before Christmas, probably, three-quarters of all the animals in the kingdom will have suffered, cattle to the extent of £2 10s. per head, and sheep to the extent of 10s. Yet, notwithstanding this sad state of

things, Her Majesty's Privy Council are quite incapable of evolving measures for its extirpation. The magistracy of the various counties went in conclave, with members of farmers' clubs and chambers of commerce to boot, with no better result than the show of jealousy of each other, and men in high places, such as Mr. Clare Sewell Read and Professor Simonds, exhibit such ignorance in the matter that the one says cattle suffer only to the extent of £1 a head from murrain, and the other, in dealing with a cargo of animals affected with rinderpest, thought he was effectually disposing of their disembowelled carcases in the bottom of the ocean by scuttling a couple of lighters, with the beasts fastened down by iron bands, forgetting, chemist though he was, that gas is stronger than iron, and especially so when generated in the stomach of an ox. Farmers and dealers have no medicinal remedy for the complaint, and are glad to escape to market, making the matter worse as they go along. It is not improbable but that the magistrates think they are hampered by the Privy Council; but have they considered the subject thoroughly before making their representations? I am very much inclined to think, from what I know, that if any measures could be suggested capable of grappling with the complaint, the Privy Council would not only be glad to adopt them, but would be very thankful to the source from whence they emanated. Perhaps it is too much to hope that we, in our little discussion to-day, shall be able to find the philosopher's stone in this case; but, at any rate, it is only due to our patriotism to make some efforts for that purpose, and, if we cannot hit the real remedy, should we manage to evolve some hints that will lead to it, our labours will certainly not have been in vain. It is not clear that we had any foot-and-mouth disease in this country before 1839, and then it was not ascertained whether it was of foreign origin or not; at any rate, a few cases of it occurred in London at that time. In 1840 and 1841, Great Britain suffered to a serious extent by it. Up to 1844 it gradually decreased. In 1845 it was bad again, then became gradually less until 1851, notwithstanding that duty was removed from cattle in 1846, and importations increased from 16,833 in 1845, to 86,520 in 1851. From 1853 to 1860 very little disease existed; and it has fluctuated up to the present year, when it is worse than ever it has been before; but it does not appear that it was greatest when we had the largest importation, nor smallest when we had the least. It has been said by Mr. Waller, of the Home Cattle Defence Association, that the present outbreak is very much indebted to Dutch cattle for the extent of its spread; but the Government report asserts that this is extremely improbable, as not a single case of disease appeared at Harwich in 1871, the place, excepting London, where the largest number of cattle from the Netherlands was disembarked. As this country has never been wholly exempt from the disease since its introduction, it is much more reasonable to suppose that it is generated by atmospheric influences, by the freer movement of home-bred stock, and by the uncleanness of vessels plying from Ireland to this country, than to reintroduction by the few animals from abroad that are allowed to come into English markets and fairs. The multiplication of trysts, markets, and marts, seem to me to be the cardinal means of generating and spreading disease. Each becomes a centre, from whence contagion radiates, and flocks and herds are from one year's end to the other upon the roads. The great railway system inaugurated in England within the last 35 years has been the means of this. People can travel long distances from home within the hour, and places of sale are being made at a convenient distance from all the chief stations on the lines. This is neither good for man nor cattle, for apart from being the chief means of spreading disease, stock does not get rested in its pastures as it used to do long ago, and much flesh is wasted by harassing it from one market to another. Besides, a shoal of little semi-dealers have come thus into being, and although they do not make money beyond a few shillings, yet they are the means of stimulating a perpetual trade in the country, and a continual travelling of stock by rail and road to and from their pastures. I do not know whether the grazier also has caught the

fevered contagion of haste pervading the commercial spirit of this age or not, but he seems to me to have forgotten that it is his business to be patient, and wait; that he is, as it were, the minister of the seasons, and that he should not hurry his cattle thus, and endeavour to feed three times a year when once or twice at the most would pay him far better. There is seldom anything got for a short keep; it is long before stock throws off the fatigue of travelling, and it should never be sold until it is just prime fat, and worth the best price per stone. One prime fat animal kept twelve months will invariably pay more money than two kept each six months and sold half-fat; and then the grazier is lessening his chance of disease, and is only once upon the road when he would be twice. Thirty-five years ago, when supplies of stock were only obtainable at home or at chartered fairs, disease was scarcely heard of; and the reason is obvious—animals were only changed twice a year, viz., in the spring, and again in the latter part of autumn; and at each time many of them were bred by people selling them, and coming direct from their folds and fields. Now you can scarcely get stock without it has been exhibited at three or four markets, or run through the fiery furnace of an auction ring. Probably if it is Irish stock it has travelled forty or fifty miles in Ireland, stood a tryst or fair, then carried in an infected vessel across the Channel, walked ten or twenty miles in England, and stood two or three trysts or fairs here; while some of the animals have had the eyes knocked nearly out of their heads by ignorant and brutal drovers, and are fully predisposed to take any contagion that may come across their path. It never seems to enter the thoughts of some men that cattle have senses and minds of their own, and are susceptible of feeling, kindness, and gentleness as well as higher animals. A great many dealers have an understanding with their drovers at fairs that they shall cudgel the cattle round and round to make them look larger, while the buyer is made to believe by the words of the seller that he is averse to any such treatment. Cattle of all kinds are easier turned by a small touch on the head with a stick than a great bat, and it would be well if our magistrates would take notice of such of those who do not understand this, or understanding it, fail to put it into practice. We have seen that it is to the management and movement of our own home-bred stock that we are to trust for the amelioration of disease and the cheapness of food more than to that of those coming from abroad. Let us then endeavour to achieve that object. The first thing, in my opinion, is to lessen the centres of infection, and to do that, I should be inclined to adopt a suggestion made by Mr. Jacob Wilson at a late meeting in Newcastle, to close all fairs and markets during the autumn for store stock. I should then pray the Legislature in future to put a veto upon all trysts and small weekly markets, and charter every stance where the exhibition of store stock is to be held. We scarcely ever heard of disease when there were fewer fairs and places of sale, and people would be no worse supplied if they were compelled to attend two or three large shows within the year instead of twenty smaller ones, thereby causing them loss of time and neglect of their farms. Four fairs at Stagshawbank, two at Hexham, three at Newcastle, two at Morpeth, three at Stamfordham, three at Alnwick, two Wooler, one at Whitsunbank, two at Belford, two at Penrynmuir, one at St. Ninians, and two at Rothbury, would be quite ample to supply farmers in the east and north of the country with all the stock they would require, if made at proper seasons of the year. At the present time there are at those few places about 120 markets during the year, besides private sales in fields at certain points, and auction marts at every town and village. How can our stock be healthy when it is never off the road? Then comes the question, what is to be done with the peripatetic dealer, who has been known to drive his herd of diseased animals twenty miles, under the cloud of night, spreading contagion and disease wherever he went? I suggested some time ago that a licence should be imposed upon all salesmen and people who dealt in cattle. I have had this mentioned to me several times since, and I find that it is the belief of very practical men—men well able to judge of this particular matter—that that would be a fair preventive to men engaged in traffic which requires a patriotic feeling and high conscientiousness, instead of unscrupulous scheming and a readiness to run the blockade for a little profit under any circumstances and at any time. I should be the last to interfere with the desires of any one in

that capacity, but there is no doubt but the profits of cattle dealers are very small, and especially of that class I allude to, and their energies would be much better remunerated in another field of labour. The intention, as you will see, is to confine the trade—I think the most important trade in the kingdom—to fewer and more respectable hands. I rode on horseback last week from the district of Kidland, near the Cheviots, to Cambo, a distance of thirty miles, over the moors and close by the drove road from Scotland, and I found the sheep and cattle on almost every farm affected by the complaint. This will tell you how easy farmers, dealers, and drovers are in their conscience, as the disease could never have got into those distant hills, far from rail and highway, without a diseased drove or droves had been sent right through. We have arrived by what I shall presume to call a process of reasoning, at a point which tells us that the increase of disease is owing to an increase in the number of fairs and an increase in the number of dealers. It will therefore be the duty of the Legislature to reduce the number of both. There is after that the question of carriage by water and by rail to consider, and the medicinal treatment of animals affected at the present time. I am informed by Mr. Wilkinson, who lately made a survey of all the ports whereat stock is landed, that there is scarcely one around the coast that is constructed with any regard to sanitary principles. He instanced Barrow-in-Furness, where all animals landed from Ireland are put into a large uncovered yard, fully half a foot thick with mud, and where they must stay for several hours, waiting for the train to bring them to an English market. It is well known that the excreta left there will retain the seeds of infection for several days; and it is the opinion of Mr. Wilkinson that all the receptacles for cattle on the coast and at the railway stations should be covered in, well paved in the bottom, and capable of being sluiced out with water before any fresh cargoes are put in. With regard to railway wagons, all the woodwork as high as the animals can reach with their mouths should be covered with hot lime, as nothing will convey the disease quicker than the effluvium from the breath, and the pus from the ulcers that are always to be found upon the palate, tongue, and nostrils of stock affected. It has been said that sheep may have the disease, and no blushes upon the mouth appear. As far as I have been able to judge, this is a mistake, though I have often found the spots so small that they were difficult to see with the naked eye, but if the nail of your finger is rubbed briskly across the gums within the teeth, the skin at once gives way, and shows a tenderness which does not exist in animals only affected with foot-rot. In previous years we have very little record of cattle taking the complaint from sheep, and sheep from cattle, and in the dry summer of 1870, I had a flock of sheep depastured among two successive lots of diseased cattle, and never one of them became affected by the complaint. It is evident that wet weather is more favourable to the development of the disease than dry, and especially for animals of different species taking it from others. In 1868 and 1870 it was not known among sheep; now the bulk of the flocks of the kingdom have been affected, and it has even attacked hares and rabbits, dogs and swine, and in some instances children. I was told the other day that a family of children at Mill Shields, on the Derwent, who had been using the milk of cows affected with murrain, showed all the symptoms of the disease, by having sore feet and hands and blushed mouths. There is no doubt that the milk from such beasts is not good for human food; for apart from its power to affect children, it has the faculty of killing all the calves that partake of it, scarcely one escaping. The pig is the most infectious of all animals, and nearly everything will take it from him. He ought, therefore, to be narrowly watched, for there is little doubt that he has often been the agent to bring it from Ireland, and leave it behind him wherever he went. I have often seen pigs in markets suffering in a dreadful manner; and such will probably be the case so long as we have policemen appointed as inspectors, who have not had any chance of knowing the symptoms of the disease. We ought to have, I think, fully qualified veterinary surgeons for this purpose. But why do farmers not adopt medicinal remedies as soon as the first symptoms of the attack appears? I quite believe that it is amenable to treatment. Only last week I was staying with Mr. George Bolam, at Alwinton. He had an ox

which took the disease on the Sunday. He gave it half a pound of salts and a tablespoonful of saltpetre at once, and dressed its feet with tar and vitriol, and it was, to my observance, much better on the Thursday. There are several other cases that I could quote. All affected animals should at once be taken out from amongst the healthy ones, kept perfectly clean, and treated medicinally. Dirt is the great friend of disease, and all places holding sick cattle should be thoroughly cleansed and disinfected before others are put in. With sheep it is a most effectual plan of treatment to drive them through some of the arsenical sheep dips which we know of as soon as it appears. This can be done by sinking a long trough against a wall, filling it with the liquid, and forcing them through it by placing hurdles to hinder them from going another path. I think we have now touched upon nearly all the points that will aid our project this day; there is one, however, which we have probably not said enough about, and that is the transit of stock through infected districts. Instead of driving it in such districts, I should advocate its being sent by rail from the nearest station. All the drove roads that I have seen are in a great measure lined with the complaint; and if stock were sent by rail there would be much less danger in its either giving or contracting the malady. With this precaution in the transition of the healthy animals—with medicinal treatment to those that are ill—with the fairs and markets closed for the present, and reduced in number for the future—with a complete renewal of all receptacles for stock at docks and wharfs—with a better system of inspection, and the impost of a strong licence upon all salesmen and dealers in cattle—I am sanguine enough to believe that we should soon have natural health restored to our flocks and herds; and that we should hear no more the clamorous complaints of the people of England of the price of this important and staple article of daily food.

Mr. MATTHEW SMITH said the subject was one of great importance to the farmers of this country. The foot-and-mouth disease was spreading, not in one particular county but in every county in England. It was a matter which required great consideration, and he trusted that it would be taken up by the Club. With respect to the treatment of diseased cattle, he had had some experience himself; some years ago he had twenty milch cows affected with the foot-and-mouth disease. He kept them strictly clean, and by means of attention and careful nursing he did not lose a single animal. Some farmers neglected the cattle entirely when affected with this disease; they turned them into the field, but the animals' mouths were so sore that they could not eat anything. They were well aware of the unsatisfactory condition of the ports at which cattle from Ireland were landed in this country; they were in a filthy state, and no care was taken to keep them clean and disinfected, so that if the cattle left Ireland in a healthy state they must eventually get the disease. It was the duty of everyone interested in this matter to petition the Government to see that these landing places for cattle were kept perfectly clean and properly disinfected. If some means were not promptly taken to check the disease it would spread more and more throughout the country. Even if cattle recovered from the disease they were much deteriorated in value, and it took many more weeks before they could be got ready for market. He saw several farmers present who had had the disease on their farms, who could no doubt tell them which was the most beneficial way of treating it.

Mr. GOODRICK said that with a great deal in Mr. Hedley's paper he entirely agreed, but he thought Mr. Hedley was wrong in fixing upon 1839 as the year in which the foot-and-mouth disease first made its appearance in this country, because he remembered having to do with it in 1832. It was a disease no one could account for, and many people who had it on their farms were at a loss to tell how it got there. Mr. Smith partly attributed it to dirt, and recommended byres and other places being washed and kept clean, but nine-tenths of them got it in their own clean fields, where there was no dirt, and yet the cattle took it. One of the authorities quoted by Mr. Hedley stated that cattle through being affected with this disease only lost £1 a-head. A friend of his in Yorkshire got the disease on his farm, and two cows near calving took it. Both the calves died, and instead of the loss to the farmer being only £1 a-head, he estimated that he would sustain a loss upon each beast of £15. Mr. Hedley stated that nearly all the calves died, and he believed such was the fact. He begged to

propose a vote of thanks to Mr. Hedley for the able and interesting paper with which he had favoured them.

Mr. THOMAS ROWELL seconded the vote of thanks to Mr. Hedley.

The SECRETARY, Mr. Wm. Trotter, remarked that there was but one point which Mr. Hedley had not very prominently touched upon, and that was the carriage of cattle by water from Ireland to this country. In reading newspaper accounts of it, he felt much disgusted with the manner in which the cattle were described to be treated, how the poor animals were huddled into a hole, ventilation was not attended to, and in a rough passage the animals suffered considerably. He quite expected that Mr. Hedley, with his experience, having crossed the Channel many times, would have enlightened them on that subject, and pointed out some remedy. When cattle suffered in their passage across, their vitality was reduced in consequence, and they were much more likely to take any disease that was going than they would if they were in a nice healthy condition when disembarked. The newspapers stated that they had to stand for several hours after leaving the vessel, exposed to all kinds of weather, and frequently foot-and-mouth disease followed. In all probability the ground on which they stood was impregnated with disease, and they must catch it at once. Mr. Hedley had a fiery word at their auction marts—

Mr. GEO. HEDLEY (interrupting): No, no; I said cattle had to pass through the fiery ring of an auction mart.

The SECRETARY, resuming, said he thought auction marts were very useful places when they had a few cattle and sheep to dispose of, because they always got full value for them without any higgling or haggling with a purchaser—the bargain was struck at a blow. The auction mart was a private enterprise, and the possessor was much more likely to pay greater attention to it, and to keep it more thoroughly clean and disinfected than those persons who had charge of public markets. He purchased some lambs at Newcastle and took them home, and after some ten days the disease broke out among them, and the rest of his cattle got it. A farmer whom he knew sent some cattle to Newcastle to a commission agent; they were returned home and got foot-and-mouth disease, and were not sold till some six months afterwards. They were sold with less profit than the farmer would have got if he had sold them when they were first sent away, because, as the farmer said, they were twice lean, and he had them twice to make fat. It seemed very plain to him that the regular fat market was one of the nurseries where the disease was kept alive and propagated, and if fat markets, such as that at Newcastle, were kept in better condition, it would be one great step in reducing the amount of foot-and-mouth disease that was in the country. As to fairs and trysts, and large salesmen and dealers and small salesmen and dealers, he could only remark that they lived in a free country, and, to a great extent, he believed in free trade—he might say he believed in free trade in everything. He was not sure but having fairs on fresh ground—where there had not been a fair for twelve months—was much better than having them on the same place a dozen times in the year. The question as to small salesmen he thought had no bearing on the subject; if rising young men thought it was a good thing to buy two or three beasts and a score or two of sheep, it was a hard case if they could not be allowed to do so without first having obtained a licence. He was much obliged to Mr. Hedley for the remarks he had made regarding the cruel treatment which cattle received that were exposed in our public markets. It was really shameful the way the animals were knocked about by the drovers at fairs and markets.

Mr. CHRISTOPHER GREY was of opinion that much of the spread of the disease was attributable to the carelessness of farmers, and also to the way in which unprincipled farmers and dealers acted. He could cite one or two instances to confirm what he stated. He knew one farmer who had the murrain amongst his cattle at a time when the Privy Council gave the local authorities the same powers as they had now, and when there were inspectors to whom cases of outbreak of disease were to be reported. At any rate, he thought it was the duty of this farmer to have acquainted his nearest neighbour of the fact, seeing that there was only a rail fence between their fields. The neighbour had cattle in the adjoining field, and yet this farmer never told him that such a thing as murrain prevailed on the other side of the fence. Certainly he

considered it was the duty of that farmer, as a neighbourly act, to have acquainted his neighbour, and not have allowed the disease to spread to another farm. Another case occurred not many miles from where he lived. A farmer bought a quantity of sheep, took them home and put them among the rest of his cattle, and the disease broke out amongst them. Another person, a cattle dealer, went past his place with a drove of cattle which were known to be affected with the disease, and a few days afterwards the disease broke out on three or four different farms in the district through which the herd of cattle passed. The party knew the cattle had the disease; an inspector looked at them, but how he passed them he could not tell, for another party who saw them while the inspector was looking at them saw three or four of them had the disease. He thought a great deal of the spread of this troublesome disease was owing to their own carelessness, and also to the unprincipled action of other parties, who wanted the affected cattle out of their own hands and away to the market.

MR. DRYDEN said that so far as his experience went, it was affected cattle passing from one place to another that spread the disease. The matter ought to be properly looked into, and means should be adopted to see that all steamboats and railway trucks which conveyed cattle were kept clean and properly disinfected, for if these were kept in proper order there was little fear of the disease. At first he thought it had arisen through overcrowding, and the filthy state in which the trucks and steamboats were commonly kept. He thought the state of the atmosphere this summer had helped to spread the disease. Had it been a dry summer, they would not have had so much of this disease. By the misty, dull weather which had prevailed, the disease had been scattered here and there over the country, and thus, independent of direct contagion, it was spread. If all cattle trucks and steamboats and other means of carrying cattle were kept properly clean, and overcrowding prevented, he believed that nine-tenths of the disease would be prevented. He had had thousands of cattle through his hands this year, but he had had very little to do with the disease. He had had a few diseased animals, and he did not believe that many of the cattle would die if they were nursed and proper care taken of them. He did not believe in medicine so much as in carefully nursing them and giving them suitable food. Those he had had, however, had a mild type of the disease. In his opinion, the first thing that was to be done was to keep the cattle trucks, steamboats, &c., as clean as possible. With many of the things mentioned by Mr. Hedley for the prevention of the disease he entirely agreed. As to licences for cattle salesmen, he might say he had no objection to paying for a licence, and any young man of spirit and enterprise, who was fitted for the work, would not object to pay for such a licence. It took a man of wide experience to make a good cattle salesman and dealer. With regard to having fewer markets and fairs, he thought it would be a good thing, not only for the prevention of disease, but for farmers themselves in various ways. Prices would not vary so much, and in every respect it would be an improvement, if there were not so many markets and fairs for cattle. As for auction marts, he would put them in the same category as fairs—there should not be so many of them.

MR. RALPH HEDLEY (Cheviot) interrupting: I am afraid Mr. Hedley and Mr. Dryden wish to create a monopoly throughout the country.

MR. DRYDEN: I think it would be better if there were fewer fairs.

MR. RALPH HEDLEY observed that, although there were many useful points in the paper, it did not show the origin of the disease, nor did it point out any special mode by which it might be checked, except that of the granting of licences, and thus creating a monopoly to large dealers and preventing free dealing. They might say that there should be licences for dealers who attended butter markets. He believed that auction marts had been the means of parties in the country arriving at a more correct value of their stock than ever before; when large dealers went to them and persuaded them that such and such stock was only worth a certain price, and very likely these parties had only two lots of stock to sell in the season, in spring and autumn, and did not know the value of stock, but had confidence in these gentlemen representing the state of trade, he believed the auction mart was the only way by which a man got to know the full value of his stock.

He did not believe these marts propagated the disease. He was quite certain they did not; and in his opinion the disease was spread by healthy animals coming in direct contact with affected ones. He had taken two or three affected cattle out of a field, and the disease had not spread over the farm, nor to his neighbour's farm. He had done that on no fewer than four occasions, and he agreed with Mr. Grey that much of the spread of the disease was owing to the carelessness of farmers themselves. It was not caused by the small dealers nor the auctioneers, but rather from their own carelessness. He held it to be the duty of every farmer, as soon as it appeared among his stock, to isolate the diseased animals as much as possible, and take every precaution against its spreading, and also to apprise his neighbour of it as soon as it broke out.

MR. A. COWING remarked that he was quite of Mr. Dryden's opinion, that the disease could be carried about by the atmosphere, as it had broken out among stock bred on the place, and quite apart from any animals being moved about.

MR. R. HEDLEY: Hares will take it.

MR. COWING: There were not any diseased cattle on the same side of the river for miles.

The CHAIRMAN said he well remembered the time of the cattle plague, when the fairs were stopped in this country; particularly was that the case with the transit of cattle—no diseased cattle were moved at all, and at that time they got nearly rid of the foot-and-mouth disease. It only required caution on the part of farmers and dealers to stamp the disease out. If their fairs were stopped this autumn, the disease would be greatly reduced, and during the winter months might be stamped out. He quite agreed that there were too many trysts; cattle were never rested at home, being continually moved about by some of those small dealers. He quite agreed with Mr. Hedley that the trade should be put into the hands of more respectable dealers, who should take out licences like the horse dealers. Not more than a fortnight ago a dealer bought some Irish cattle at Carlisle, which he brought to Corbridge station, where they were taken off in the middle of the night. The dealer lost some of the animals on the road, and next morning he sent two boys to take two cattle out of his field, thinking they were his, while his cattle had been wandering on the road all night. Several dealers, when in his neighbourhood, had been in the habit of letting the cattle go slowly on the road, with one person in front and one behind, in order, he supposed, to bait them. With cattle travelling past their farms in this manner, how could they expect to be free from disease, especially as the policeman never once thought of looking after these cattle, and obliging the drovers to drive right on. The Irish cattle were subjected to much cruel treatment in their transit from Ireland to this country, by which they were reduced in stamina, and could not withstand the disease. They were often exposed for hours to the cold, and then trucked and sent considerable distances without food. He had heard that cattle landed in the North of England had been sent into Norfolk without food or water. If any one was brought up for cruelty to animals it should be those dealers who did these things. They also knew how shamefully cattle were treated at fairs and markets; the drovers used them unmercifully, and, as Mr. Hedley said, they knocked them about to make them look better. He had many a time requested the drovers to let the cattle stand quietly. If anything could be done to stop the fairs and trysts, and to stamp out the disease during this autumn and winter, it would be of great benefit to the country.

The vote of thanks to Mr. Hedley, for his paper, was then put and carried.

MR. GEORGE HEDLEY, in replying on the discussion said he might safely reiterate that the first appearance of foot-and-mouth disease in this country was in 1839. He thought Mr. Goodrick would give way on that point when he told him that he got his information from the blue books of the Crown.

MR. GOODRICK admitted that he was in error, and that the year 1839 was the correct date.

MR. HEDLEY agreed with the observations of Mr. Goodrick as to the severity of the disease upon milch cows. The instance that gentleman gave was a very apt one, and it was probably on account of the great severity with which it affected milch cows that brought the average of the damage they sustained to such a large amount. With regard to Mr. Trotter's

remarks, he had no doubt but that he was a patriotic man, and wished to move forward in the direction which he thought was best for the welfare of mankind, though he had this to say respecting his objections, that instead of taking up the cardinal points of the subject, those points most likely to remove the disease and bring about a radical change in the health of their cattle in future, he simply touched upon a few details which had little bearing on the matter. He was sorry he took exception to two things which were meant to benefit the farmers of this country, namely, fewer fairs and trysts, and licences for cattle salesmen and dealers. He might couple with Mr. Trotter's opinion that expressed by his friend, Mr. Ralph Hedley, who spoke from a point of view, he was afraid, of affecting his own calling. He had a dream that he was more patriotic. If any man could show him by good reasoning that if they reduced the centres of infection they would not reduce also the spread of infection he should be glad to give way to him. It would be against all the laws of logic he had ever heard expounded. He had been accused of wishing to give a monopoly of trade to large salesmen and dealers; he was glad to say such a thing never entered his mind; his sole idea was how to get rid of this dreadful complaint and to keep the health of their flocks and herds good in the future if possible. He thought Mr. Trotter and Mr. Ralph Hedley jumped at conclusions rather rapidly when they assumed that the imposition of licences upon dealers would affect the matter from a dealer's point of view. The fact was there were far too many small dealers, many of whom drove cattle about under the cloud of night, as Mr. Lee had shown, and their cattle got into farmer's fields and spread disease wherever they went. These small dealers were only gaining a few shillings, and although they were making a small gain, they were losing much valuable meat to the country by driving cattle continually about. They had less disease when they had fewer fairs, and farmers only attended markets a few times in the year for the purposes of buying stock. If the number of centres of disease were reduced there would be less spread of it. From the remarks of Mr. Christopher Grey, he inferred that he agreed with a reduction in the number of fairs and also in the number of dealers if possible, as he said in his speech that unscrupulous farmers and cattle dealers were the means of spreading the disease by driving affected flocks and herds through the country. He was glad to find such an experienced and practical person as Mr. Dryden fall into a like way of thinking as himself. Although he was one of the first men in the country he would have consulted in getting up this paper, he regretted to say that he had not had an opportunity of speaking to him until that day in the Newcastle cattle market, after his paper was of course written, and it was a curious fact that he had taken this view of the case. He was sure both could live, their families were not so great, if all the people turned dealers, and if every town and village in the country had an auction mart. He thought it was a mistake if people had the idea that an auction mart was the best place to sell either fat stock or lean, except it was a depleting sale of a farm. As they all knew, every animal went through the same ring, and if there was any infection left in the ring the animals following

must get it. Foot-and-mouth disease was a most subtle and infectious one, and was communicated in a manner that sometimes surprised them, so slight and slender seemed to have been the means. Then, again, there was more competition in markets like those of Newcastle, Liverpool, and London than at auction marts. He agreed with what had been said by Mr. Trotter regarding the management of steamboats, also of wharves and other places where cattle are landed. He also agreed that if possible something should be done to prevent the cruel treatment to which cattle were subjected at fairs and markets. He thought the best thing they could do was to pass some resolutions on the subject, and forward them to some quarter where they would be put into circulation and operation.

Mr. SMITH then proposed "That this meeting views with great alarm the violent and universal spread of cattle diseases throughout the kingdom."

Mr. DRYDEN seconded the resolution.

Mr. DRYDEN moved "That this meeting is of opinion that the chief causes of the origin and spread of cattle diseases are the imperfect management of transit, the rough and cruel treatment during land and water carriage, the unsuitable condition of railway trucks and wharves, and the multiplication of fairs and markets throughout the kingdom."

Mr. W. F. CATCHESIDE seconded the motion.

Both these resolutions were agreed to.

Mr. TAYLOR then moved the following resolution, which was seconded by Mr. PICKERING: "That the spread of disease would be materially checked if a licence was imposed upon all cattle salesmen and dealers, the same as in the case of horse dealers and auctioneers."

The SECRETARY, Mr. Trotter, opposed the resolution, as he thought the Club was going out of its proper sphere in interfering with such matters. He might remark, although he did it with considerable diffidence, that such a resolution coming from a cattle salesman—Mr. Hedley having prepared it—he did not care however respectable the gentleman might be, threw a shadow of suspicion into people's minds that it partook of what was vulgarly called "the shop." He held that it was wrong to compel men to have licences to buy cattle, and moved that the resolution be not accepted.

Mr. RALPH HEDLEY said that this resolution, though not moved by Mr. George Hedley, was moved by another gentleman at his dictation, and he (the speaker) considered that it was not called for. They should not trammel themselves with licences which in a short time they would be glad to get rid of. He seconded Mr. Trotter's amendment.

Mr. SMITH supported the motion, which was opposed by Mr. W. F. CATCHESIDE, who, while agreeing that they should do their utmost to stop the spread of the disease, thought licences did not effect it in any particular point of view.

After some little further discussion, the propositions were put to the meeting, when three voted for the amendment and three for the motion. The Chairman gave his casting vote in favour of the motion, which was declared carried, and the meeting terminated.

ARTIFICIAL MANURES ANALYSIS CASE.

CIRENCESTER COUNTY COURT.

JOSEPH ASHEY FARDON v. THOMAS LITTLE. Claim £13 for manure.—Mr. Jeaynes, of Gloucester, appeared for the plaintiff, and Mr. Hampton for the defendant.

Mr. JEYNES, in opening the case, said the plaintiff was a manure manufacturer living at Droitwich, and the defendant was a farmer at Norcote, near Cirencester. They claimed for two tons of manure sold by an agent, Mr. Mace, to the defendant some time in May in last year, at £6 10s. per ton. He would inform his Honour that the plaintiff made three qualities of manure; the first quality was sold at £7 per ton, the second quality at £6 10s., and the third quality at £6. The defendant bought the second quality. The manure was sent away on the 12th of May, and on the 2nd of June plaintiff received a letter from defendant, in which he stated that he had sent a sample of the manure to Professor Church for analysis, and enclosed a copy of the result of the analysis. He said that in justice to farmers purchasing manure, this

should be published in all the agricultural papers, which course he intended to adopt. Plaintiff replied in a letter of June 8th, stating that they sold this manure as a special manure for swedes, and not as superphosphate; that although very great care was taken in mixing the ingredients, it was impossible to ensure that in such a small quantity as was taken for the analysis they should exist in proper proportions; and that if defendant would give the manure a trial with any other at the same price, plaintiff was not afraid of the result. Defendant did not reply to this letter, and on the 14th June the plaintiff again wrote him. The substance of the letter was that as the defendant had used such strong language in his first letter, and in order to show that it was quite possible that the ingredients might be imperfectly mixed, he enclosed an extract referring to a case in which the Royal Agricultural Society of England had adopted the course defendant had hinted at, namely, publishing the analysis of a manure in a newspaper, and had to

apologise and pay costs. The defendant took no notice of that either. He had not said he would not pay for the manure, and the next letter received from the defendant was in reply to an application for the money. Defendant said he was surprised at an application for the whole of the money, when the plaintiff knew the manure was of little value. He stated that he had used 10 cwt., and that 30 cwt. was left which he did not intend to use, and that he would submit to another analysis to determine what he should pay. Mr. Jeynes urged the point of its being a special manure, and not sold as a superphosphate. The defendant had never offered to return the manure, nor refused to pay for it till the money had been applied for twelve months after, and therefore he could not conceive what defence Mr. Hampton was going to make. He then called the son of the plaintiff.

JOSEPH ASHBY FARDON, examined by Mr. Jeynes, then deposed that his father had been in business for 18 years at Droitwich. In May in last year they sold to defendant through an agent two tons of manure.

The JUDGE said he should like to hear something of the circumstances of the sale.

Mr. Jeynes said the agent was not present, but read the order from the agent to plaintiff.

Examination of witness continued.—The manure was sold as a special mixture for swedes. The manure was forwarded to the defendant, and the first intimation they had of it was by the letter of the 2nd of June that had been read. [The letter referred to and the other letters read were put in, except the last written by defendant.]

Mr. Jeynes said he should take exception at once, as it had been proved that the goods had been delivered and never returned or paid for. The plaintiff was not present at the analysis, nor had he received any notice to attend at any test.

The JUDGE: You have had notice that the defendant had had a sample analysed, and found it to be worthless; and if you wanted to analyse the manure you could have done so.

Mr. Jeynes: We were no party to the analysis, and we have had no opportunity afforded to us since of examining the manure.

The JUDGE: You would have been perfectly justified in testing the analysis.

Mr. Jeynes: Defendant did not return the manure or refuse to pay for it. We asked him to give it a fair trial.

The JUDGE: This letter is a pretty strong intimation that he did not intend to pay for it. [His Honour read an extract from the first letter put in, in which defendant said that he should publish the result of the analysis as a caution to farmers buying manure.]

Mr. Jeynes: But we deny that the analysis is correct, and allege therefore that it is inadmissible.

Examination of witness continued.—Plaintiff's opinion of the analysis was that it was incorrect, on the ground that the quantity of soluble superphosphate, which was a valuable ingredient in turnip manures, was very much under-rated. The quantity of soluble superphosphate it was stated to contain in the analysis was 2.31 per cent.

His HONOUR: What is the amount you state it to contain?

Witness would rather not answer the question, but would do so if pressed by his Honour.

His Honour did not press the question.

Examination continued.—Plaintiff did not sell the manure as superphosphate, but as a special manure, calculated to promote the growth of turnips or swedes. Mr. Church's assertion that the manure contained a great quantity of sand was not correct. There was no burnt earth in it, but it contained soot. He did not know whether Mr. Church might be deceived by the presence of soot and call it burnt earth. It was possible that in the process of mixing the manure some ingredients might exist in large proportions in the small quantity analysed. They could not rely upon analysis as a test of mixed manures. There was no guarantee given in this case. They had been selling this manure for about 20 years, in very large quantities in this and other neighbourhoods. They had never received any complaint before. Not only had they never had any complaints but had received orders a second time. They had heard no results of the 10 cwt. which defendant had used. It was a fact that if the manure was exposed it would go back, and the soluble phosphate would be reduced.

Cross-examined by Mr. HAMPTON.—Witness had had no experience in chemical matters, nor was he a practical chemist.

He had not been educated in chemical matters. He swore that there was no sand put into the manure by them; whether there might not be some in the superphosphate of lime that they bought he could not tell. Burnt earth could not get into the manure. They did put common salt in the manure to the extent of 7 per cent. Half a ton of the manure would be a proper test if used properly, as manure should be used. If kept in the dry for a week the manure would not lose much in its quality. They had not sold much of this manure in this neighbourhood, but more in Oxfordshire. They sold some to Mr. Butt, a farmer near Cirencester, and he did complain when the account was sent in; they threatened him with litigation before he would pay for the manure. Witness declined to state the quantity of soluble matter in it unless pressed by the Judge. Witness' father received Professor Church's analysis within a fortnight of the manure being sent off. They had not, as suggested by defendant, made any test of the manure. A great many persons had expressed themselves satisfied with the manure.

Mr. HAMPTON asked that the letter from defendant, proposing another trial of the manure, should be put in. It was put in accordingly.

Cross-examination continued.—It would not be generally understood that a swede manure was a superphosphate. Agriculturists would not necessarily receive it as such.

Re-examined by Mr. Jeynes.—There was no sand in any of the ingredients.

Mr. Jeynes produced testimonials from various farmers in praise of the manure, and asked to be allowed to put them in.

Mr. HAMPTON objected.

Mr. Jeynes: Then I must ask for an adjournment to produce the parties.

Mr. HAMPTON said rather than go to the additional expense of an adjournment, or raise technical objections, he would submit to the letters being put in.

Plaintiff's foreman, William Stockley, was called, and swore to the signatures of the testimonials as being written in his presence.

Mr. Jeynes then read the letters, which were from five gentlemen all from the neighbourhood of Shipton. Having purchased small quantities of the £6 10s. manure, they each professed themselves satisfied, and said they should order some more.

WILLIAM STOCKLEY, cross-examined by Mr. Hampton, said he went round specially at the request of Mr. Fardon to get these testimonials. He was foreman to Mr. Fardon.

Mr. Jeynes said if the case were adjourned he could bring the parties who wrote the testimonials.

Mr. HAMPTON was quite willing that the case should be adjourned.

His HONOUR to Mr. Hampton: It would be more satisfactory, as you would have an opportunity of cross-examining them, but I think you had better proceed.

This concluded the case of the plaintiff.

Mr. HAMPTON said they based their defence on the quality of the manure purchased. The quality of the manure was such that by merely seeing it while being drilled, Mr. Little concluded that it was of little value, and sent a sample to Professor Church to be analysed, and upon the result of that analysis he proposed to rest his case. 10 cwt. of the manure had been used, and Mr. Little found that he had spent labour on that which would produce nothing. He would not make any further remark, but would at once call the defendant.

Mr. THOMAS LITTLE, examined by Mr. Hampton, then deposed that he was a farmer. In 1871 he farmed largely, about 800 acres, situated at Driffild. He purchased this manure from the agent, Mr. Mace. He intended it to drill in with swedes. He did not buy it specially as swede manure, but thought it was good and could be used for anything else. It was used to drill in with swedes. The agent recommended it as being good manure for the purpose. He received the manure on the 15th of May, 1871, and used it about the 23rd. The manure was being used with swedes, and when he saw it, thinking that it was of very little value, he stopped the drilling, and said he would have it analysed. He had a bottle full taken from the bulk and sent to Professor Church (bottle produced with some of the manure still in it). He believed that the bottle he sent was the same as the one produced. He sent a copy of the analysis to Mr. Fardon. He used 10 cwt. of the manure, and the result of it was that the crop was not half so

good as in the adjoining land. The land on which the manure was put had also been treated with farm-yard manure, while the land adjoining had no manure at all, and yet the unmanured land produced twice as good a crop as the doubly manured. His opinion of the action of the manure was that it destroyed vegetation. The manure was stored in the cart-house before it was used. He never used this manure before.

Cross-examined by Mr. JEYNES.—He bought the manure of Mr. Mace as he recommended it. He expected a good manure for £6 10s. He had paid £7, and for valuable manure he had paid £8, but never more than that. The manure was put in the cart-house, no other was put with it. He sent two samples to Professor Church, one from the plaintiff, and the other from another maker. He paid £6 10s. per ton also for the other sample. He did not take the samples himself, his son took them, but he was satisfied that they were taken right. His land generally grew a good crop.

Mr. JEYNES: Is earth from your land worth £1 a ton?

WITNESS: Hardly that, perhaps, but it is worth as much as the manure.

By His HONOUR.—Witnessed used 10 cwt. of the manure.

Cross-examination continued.—He did not send to the plaintiff when his crop came to perfection because he had sent quite enough. The plaintiff did write him a letter asking him for a fair trial, and he did give it a trial, and found it was of no use. He did not write and tell the plaintiff the result of his crop, as he did not think it necessary.

The JUDGE said Mr. Fardon had applied for a trial in his letter of June 8th.

Mr. JEYNES, to the defendant, said they had written him a letter asking for a trial, and felt confident that they should obtain a good result, and until they received his last communication stating the manure to be useless, they took it for granted that the result was satisfactory.

His HONOUR said that in manufacturing manure it was obvious that all the parts might not be completely mixed—that was clear.

Cross-examination continued.—He did not send the result to the plaintiff, but had told Mr. Mace, the agent, about it several times in the market. He used 2 cwt. to the acre, the same quantity as he did of the other manure.

Re-examined by Mr. HAMPTON.—It was generally expected when they bought swede manure that they were buying superphosphate. He did not get any reply to his letter proposing a second analysis. Mr. Mace, the agent, advised him not to pay for the manure. A good manure must be well mixed. If it was not mixed properly it was the fault of the maker.

The JUDGE said that an unsupported analysis would not constitute a sufficient test.

GEORGE MOSS, a lad, was next called, and in examination by Mr. Hampton, deposed that he was a labourer in the employ of Mr. Little. He was in his employ in the month of May, 1871. He remembered the manure being taken up through the village to the cart-house. He knew it was the manure because of the labels on the bags.

The JUDGE: Can you read?

WITNESS: No, sir.

Examination continued.—He remembered young Mr. Little placing manure in the bottle produced, and taking it to be analysed.

Cross-examined by Mr. JEYNES.—He saw the manure in the cart-house. The carter took it there. There was a ticket on the bags. He could not read the tickets. Some of the boys at work about got the tickets off, and some of the bags got the strings off. The boys upset the bags in the cart-house, and spilt some of the manure, but it was put in again. The cart-house had not a wood or stone floor, but a mould floor. If the manure were picked up again some of the dirt might be picked up with it. The bag that was upset was the one the sample was taken out of.

Re-examined by Mr. HAMPTON.—The floor was common mould, and did not contain burnt earth or sand.

By His HONOUR.—Witness told the boys to leave it alone, but they would not.

Professor Church was then called.

Mr. JEYNES protested against any further evidence, inasmuch as it had been proved by one of the witnesses for the defence that it was not the actual thing delivered that Mr. Church had analysed.

The JUDGE said that the delivery had certainly not been proved in the clearest manner possible.

Mr. HAMPTON said unfortunately Mr. Little, junior, was in Ireland, and he had intended to be home purposely for this case, but either the boat or train had failed and he had not put in an appearance. If necessary, they could adjourn the case for his attendance.

Professor A. H. CHURCH, M.A., F.C.S., Consulting Chemist to the Cirencester Chamber of Agriculture, was then examined by Mr. Hampton, and deposed that he had been Professor of Chemistry at the Royal Agricultural College for the last nine years. He had made some hundreds of analyses of manure. In the month of May last year he received a sample of manure from defendant's son, as a fair sample. He put a label on the bottle containing the sample at once. He analysed the contents. A turnip or root manure was considered to be a superphosphate. He had analysed scores and always found them to be essentially superphosphates. He should expect to find 26 per cent. of soluble phosphate in a manure. One of his analyses of Proctor's manures had yielded 28 per cent. The manure he received from defendant contained 2.31 per cent. bone earth rendered soluble. It contained 5.02 of insoluble phosphate of lime, 19 per cent. of sand, insoluble or useless matter, 16.82 of common salt, which should not be bought as superphosphate manure, as it could be obtained so cheaply that farmers purchased it themselves. It contained about the usual proportions of water, 17.33, and of ammonia and other valuable substances it contained .372, or little over one third of a part in a hundred. After deducting from the worth of the manure the cost of distribution, which would lessen its value by one-half, it might be worth from 8s. to 9s. per ton.

His HONOUR: Then for sale the manure would be worth almost 9s. per ton?

WITNESS: Yes, after taking away the cost of distribution, which is a very serious thing in the case of so weak a manure.

The following was the Professor's analysis of the manure:

Fardon's Special Manure for Swedes and Turnips.

Water	17.33
* Organic matter.....	16.31
Siliceous and insoluble matter.....	19.00
† Monocalcic phosphate.....	1.74
Insoluble phosphate of lime.....	5.02
Sulphate of lime	12.92
Common salt.....	16.82
Oxide of iron, alkaline salts, &c.	10.86

100.00

* Containing nitrogen equal to .372 per cent. of ammonia.

† Equal to bone-earth made soluble, 2.31 per cent.

Examination continued.—He examined the manure several times, and always obtained the same result, and it had been shown to the students as a sample of worthless manure. Advanced students had analysed the manure and obtained the same result.

His HONOUR: Do you know Mr. Little's farm?

WITNESS: I do not, but I know that the soil contains a good deal of lime.

Examination continued.—There was a very slight smell to the manure. He did not attach much importance to the smell as indicative of the goodness of a manure. He relied upon the analysis. Manure manufacturers must know that if manures were not well-mixed they were of no use—if the nitrogenous substances were separated from the phosphatic substances it produced a spotty appearance on the vegetation. No length of keeping would introduce into manure substances which were not mixed with it.

Mr. JEYNES: If it was turned inside a cart-house, would that alter it?

WITNESS: It would have got a little drier, and consequently I should have got a little more phosphatic matter out of it.

Cross-examined by Mr. JEYNES.—As to the value of the manure he had stated, and it was calculated in analyses that each one per cent. of bone earth rendered soluble was worth four shillings.

Mr. JEYNES: What quantity did you take for your analysis?

WITNESS: About 6oz., and from that I made my analysis.

Mr. JEYNES: Would a shilling cover the quantity that you used for your different tests?

WITNESS: Yes, probably.

Mr. JEYNES: Would it be possible to get, in such a small quantity as that, each ingredient to exist in proper proportions?

WITNESS: Yes, because a manure manufacturer who knows his business would mix it up well, and analyses known to be correct are always made on such samples.

Mr. JEYNES: Do you think you could mix it up so nicely?

WITNESS: I know I could.

Mr. JEYNES: Everything would mix together and exist in proper proportions?

WITNESS: Certainly.

Mr. JEYNES: You have given evidence in a court of law; has any chemist ever differed from you in his result?

WITNESS: Never, except within a per cent. for the limits of experimental error.

Mr. JEYNES: You had another sample from Mr. Little?

WITNESS: Yes, the day after I received the sample in question, and there could be no mistake between the two.

By his HONOUR.—Witness had never analysed any of defendant's manure before that he was aware of. He had not analysed manure for Mr. Butt. He had not seen the crop produced by the manure. He should have liked to have done so. Witness had heard that defendant had applied the manure to five acres of land previously treated with farm-yard manure, and that the crop produced was much worse than in an adjoining field where there had been no manure, and was surprised at the results. But salt would on this soil produce very bad effects, and when a manure was used one-fifth of the weight of which was common salt it could be accounted for. Salt was occasionally injurious in this neighbourhood and might counterbalance the effects of the farm-yard manure by killing the young plants.

Cross-examined by Mr. JEYNES.—Salt is not applicable in this soil, but in some places it was purchased by the farmers separately. If farmers purchased a manure they ought to have no salt for this land. In some neighbourhoods salt might be good as a manure.

Mr. J. BUTT was next examined by Mr. Hampton, and deposed that he was a farmer, farming 370 acres of land. In the month of May, 1871, he purchased two tons of superphosphate for swedes and turnips of the plaintiff. The manure was similar to that contained in the bottle produced, and he gave £6 10s. a ton for it. He used all his, putting it by the side of some land on which he used some of Lawes' manure at £5 10s., and there was about the difference between the two as one would expect where manure had been used and where none had been used. He declined to pay for it, and told Mr. Mace about it, who said he could not help it. He had since paid for it, as the plaintiff had threatened proceedings against him. He had not seen Mr. Little's crop.

Cross-examined by Mr. JEYNES.—He received his manure the same day as Mr. Little received his. He compared the manure with that sent by Messrs. Lawes. He found about seven days after drilling, when the first lot came up, that the manure sent by the plaintiff was bad. He thought it was good because Mr. Mace recommended it. About a fortnight after that he found that the crop did not grow up. He did not send to Mr. Farden because he thought he only had to do with Mr. Mace. About two months after, he saw Mr. Mace, and told him about it. There was a disease called the "fly" which affected the turnips and destroyed them, but the fly did not affect his. He complained to Mr. Mace about the crop, because he thought as he had bought the manure of him it was with him that he had to do. He had never exhibited at the shows. He had asked Mr. Mace to come and look at his crop, which he did about this time last year.

By his HONOUR.—Mr. Mace advised witness not to pay for the manure.

Cross-examination continued.—Mr. Mace told witness that he had used some of the manure himself, and he could recommend it. He did not know whether he used it still. He did not know how much he had used. This was the second year that Mr. Mace had been on his present farm; and witness did not know whether he had used it this year or not. He should think Mr. Mace would not have recommended the manure if he had not thought it was good.

Mr. SAMUEL BRYANT deposed, on examination by Mr. Hampton, that in May, 1871, he was farm bailiff to the defendant, but now he was farming on his own account. He

remembered the plaintiff's manure being brought home. It was placed in the cart-house in the dry. It was used about the 23rd of May. They used 10 cwt. on five acres. The drilling was stopped because Mr. Little thought it was no good, and he said he should have it analysed. The five acres did not yield half a crop. That land had had farmyard manure upon it, and just over the hedge where there had been no manure there was twice as good a crop.

Cross-examined by Mr. JEYNES.—The land adjoining had no manure the previous year. The crop was decidedly no better, but was considered not quite so good. There were no bricks in the cart house. No bricks, burnt earth, salt, or sand, was ever put there. He did not see the bags untied till out in the field. He did not see the sample taken out.

By the JUDGE.—I know nothing of the bags being upset.

Mr. LITTLE: I do not think they were upset.

Mr. Hampton was just asking for a verdict for the defendant when Mr. Little, Jun., arrived in court, and was immediately sworn.

Mr. LEWIS DAVIS LITTLE, being examined by Mr. Hampton, deposed that he was son of the defendant. He remembered the manure being brought home. He remembered that the drilling was stopped because a quantity of burnt brick was discovered in the water drill. He took a sample to Professor Church on the following day. He also gave evidence as to the state of the crop.

Cross-examined by Mr. JEYNES.—He knew the cart-house. It had an earth floor. There were no brick-bats there. The floor was perfectly dry. He never saw bricks in the cart-house. They had never stored any bricks in the cart-house, nor had they carried bricks in their carts. They had never burnt any earth for manure. They put all their carts in the house sometimes. There were no bags upset to his knowledge.

By Mr. HAMPTON.—The cart-house had a firm floor.

By the JUDGE.—He took the sample from one bag.

By Mr. JEYNES.—From the centre of the bag standing in the middle.

On being reminded that the latter stated that the sample was taken from three bags, he said he thought on second consideration that the sample was taken from three bags.

By Mr. JEYNES.—The boy did not tell him that the bags had been upset. The bags were tied up, and he untied them for the first time.

The JUDGE: I cannot place any reliance on Moss's evidence.

Cross-examined.—The bags were sewn up, and I borrowed the boy's knife to cut the string. There were no labels on the bags.

His HONOUR, in summing up, said if there had not been something to corroborate the analysis, and the defendant had trusted to that alone to carry his case, then he must have said the defence was not made out; but under the circumstances he was bound to say that the defendant had, in his opinion, made out his case. If the defendant had trusted to the analysis of so small a quantity, points might have been raised as to the completeness of the mixture, or the fairness of the sample; but the fact of half a ton of this manure being used on five acres, and the same five acres having also been treated with farm-yard manure, coupled with the fact that an adjoining field had produced a better crop with no manure, was in itself a conclusive proof that the manure was not fit for the purpose for which it was sold, and for which it was made. Professor Church's analysis might be very satisfactory as far as the small quantity he analysed went, but beyond this the evidence of the defendant's witnesses had made out their case. It would, perhaps, have been more satisfactory if the defendant had given notice to the plaintiff to come and see the crop, or if the plaintiff had adopted the suggestion made to him, and had the manure again analysed.

Mr. JEYNES: I will submit to a nonsuit and have no verdict at all.

His HONOUR: Very well, but I hope if the case is tried again it will be before a jury.—From *The Wilts and Gloucestershire Standard*.

IRIS.—This famous prize-horse "righted" himself at the Abergavenny Horse Show, where he took the first prize in what appears to have been a very good class of hunters up to 15 stone. "He was ridden by Mr. Goodwin, and showed himself to be very clever."

REVIEW OF THE CORN TRADE DURING THE PAST MONTH.

Though the sulkiness of September was rapidly followed by intense frost, the month of October as to temperature has been more mild and seasonable; but wet weather has generally ruled, followed up by floods in the low-lying places, with much local damage, while it has put a stop to potato digging and wheat planting, light and hilly soils excepted. Nor has this been the only evil endured by farmers, whose wheat, mostly injured by sprouting, has been so much further damaged in condition, that sales have been extremely difficult even at 2s. or 3s. per qr. less money, while the demand for seed has kept up the value of every sample fit for this purpose, and so thrown consumption upon useful and dry sorts of foreign, that in spite of the rise in discount, its value has suffered but little, though business has not been speculative, but merely from hand to mouth. Indeed, the state of the money market in London may lessen the disposition to make consignments to England, lest a panic should set in, and bring on commercial disasters. The four weeks' sales of the past month, however, pretty well indicate our deficiency this year, being 290,595 qrs., against 421,023 qrs. last year, or a weekly falling off of 32,532 qrs., say about one-third of the whole; and as consumption will increase, not only from the approaching winter, but the loss of a great part of the potato crop, so the increased demand for foreign will be too evident to importers and holders to induce them much to give way, whatever be the future of the money market. Paris has rather given way in flour, but not for wheat, and the majority of the country markets of France were either firm or rather dearer. Belgium in some places has noted easier rates, and so have a few of the German markets, being influenced by the late accounts from London. New York too has declined 1s. per qr. But these fluctuations always occur at high rates like the present, especially when the money market is uneasy. As we have now a fair stock in granary, dulness may prevail this side Christmas; but should the winter be severe, the probability is anything previously lost will be fully recovered; but with open weather it may last till spring, when stocks will be getting low, and the extent of our deficiency be better ascertained. One thing is certain, that there has been no speculative spirit to force up prices unnaturally, neither is it likely with discount so high, and there must be a constant demand for good foreign all through the season; and as in all foreign ports old stores were very limited, however the next harvest may turn out, Europe seems likely to be pretty well cleared out by that time. The following rates were recently quoted at the several places named: White wheat at Paris 56s. 6d., red 54s., white at Bordeaux 54s., red wheat in Belgium 59s. to 61s., white Zealand at Rotterdam 70s., Guelders at Amsterdam 63s. 6d., best wheat at Zurich 63s., fine red at Hambro' 61s., cost, freight, and insurance; at Stettin 55s., free on board; best high-mixed at Dantzic 68s., cost, freight, and insurance, at Konigsburg the same; red at Petersburg 55s. 6d., Ghirka at Odessa 41s. to 45s., hard at Taganroc 47s., soft at Algiers 50s., in Spain white sorts at Arevalo 48s., white at San Francisco 59s., cost, freight, and insurance; red spring at New York 52s. per 480lbs., heavy red at Copenhagen 68s., cost, freight, and insurance; at Rostock 64s., cost, freight, and insurance.

The first Monday in Mark Lane (which commenced on 30th September) opened on a moderate supply of English wheat; but there was plenty of foreign. The show of samples from the near counties during the morning was limited, consisting chiefly of white sorts more or less

sprouted. This want of quality made a slow trade, at barely the previous currency, millers buying but very sparingly. Fine samples of foreign obtained very full prices, while red sorts, Russian and American, of good quality, brought quite former prices. With few cargoes off the coast values were firm. The general aspect of the trade in the country throughout the week was that of great firmness, the finest sorts from scarcity being occasionally dearer; but there were a few exceptions, both Lynn and Stockton noting a decline of 1s. per qr. Liverpool, though firm on Tuesday, was down 1d. to 2d. per cental on Friday for inferior sorts. The Scotch markets were unaltered. Edinburgh was steady, and Glasgow in calm. At Dublin both native and foreign wheat was quite as dear as during the previous week.

On the second Monday the home-supply of wheat was moderate, and the foreign arrivals rather less, though still abundant. There was but a limited show of fresh samples from Essex and Kent during the morning. The average quality being poor was dull, without any nominal change, but with a good demand for all qualities fit for seed, at very full prices. The foreign trade generally exhibited firmness, red American and good Russian being 1s. per qr. dearer. Floating cargoes maintained their value, but without briskness. The country trade during the week exhibited very little change; but the scarcity of fine qualities kept up their value everywhere, while inferior being below miller's wants, were in favour of buyers. Liverpool gave way 2d. per cental on Tuesday, and there was a further decline on Friday of 1d. to 2d. per cental. American wheat being plentiful at Glasgow, was down 6d. per boll, but fine Saxonska at Edinburgh was 1s. higher. Foreign wheat at Dublin was unaltered in value, but Irish being of inferior quality, was dull, and in favour of buyers.

On the third Monday there was rather less of home-growth in the returns, but this was more than made up in the large foreign arrivals. The show of samples on the Essex and Kentish stands was more ample than previously exhibited, but this was caused by overleft samples being included in it. The general quality was so inferior that factors would gladly have cleared out at 1s. to 2s. below previous currency, but this they could not do, but few millers being willing to purchase. At the same time a most active demand was experienced for seed, every sample of this quality bringing very high prices. The foreign trade had, however, lost its buoyancy, the leading sorts, Russian and American, being generally quoted 1s. lower. Cargoes afloat were the turn cheaper to sell freely. Great heaviness ruled this week in the country, the want of quality being much felt as in London, and though some reports noted no change, the average decline was 1s. per qr. Liverpool was 3d. down per cental on Tuesday, and another 1d. was lost on Friday. At Edinburgh fine qualities were without change, but inferior were 1s. down, and at Glasgow this was the state of trade in all qualities. Wheat, both native and foreign, at Dublin, was 3d. to 6d. per barrel in favour of buyers.

On the fourth Monday the native supply was moderate, the foreign supply, though less than of late, still ample, including fair quantities from Spain and France. The fresh samples exhibited from the near counties during the morning were not numerous, but from the damp and rainy weather they were about the worst since harvest. It was no use to press them, but factors would very gladly have made a clearance at 2s. reduction, but at the close of the market they mostly remained unsold, while fine

samples were wanted, and brought fully the previous currency. The foreign trade was very calm, partly owing to the rise in discount, but good qualities were not to be had at less money except occasionally out of ship, to prevent demurrage. Cargoes afloat were cheaper to sell. This was a dull week in the country, the damp throwing most samples into bad condition; for fine qualities little difference was noted. Several places were down 1s. per qr., as Lynn, Rotherham, Newcastle, Uppingham, Market Harbro', &c., while some markets were 1s. to 2s. lower, as Louth, Market Rasen, St. Ives, and Leeds. Edinburgh was 1s. to 2s. cheaper for inferior wheat, and Dublin 3d to 6d. down per barrel for foreign.

The imports into London for four weeks were 29,805 qrs. English wheat and 171,700 qrs. foreign, against 40,990 qrs. English and 199,265 qrs. foreign for the same period last year. The imports into the United Kingdom for four weeks ending October 12th, were 4,427,425 cwt. wheat and 442,616 cwt. flour, against 3,940,843 cwt. wheat and 241,207 cwt. flour last year. The London exports have been 5,639 qrs. The averages opened at 59s. 1d. and closed at 58s. 9d. The general averages commenced at 58s. 9d. and ended at 58s. 3d.

On the first Monday millers raised the price of town flour from 54s. to 57s., and there has been a dull trade with very little change since, and to sell country sorts freely it was necessary to accept about 1s. per sack less at the close of the month, 43s. being scarcely obtainable for Norfolks; white extra prime Orleans American barrels were worth about 35s. per barrel. The imports from France have not been generally liked, being wanting in strength. The arrivals into London for four weeks were, in country sorts 86,838 sacks, and in foreign 15,284 sacks 18,403 barrels, against 89,251 sacks English and 6,377 sacks 27,801 barrels foreign for the same time in 1871.

Maize has fluctuated during the month, having first risen about 1s. per qr., and subsequently this advance was lost with free arrivals, leaving the value of fresh American at 29s. per qr.; white Galatz to 35s. per qr. The imports in four weeks were 64,467 qrs., against 11,369 qrs. in 1871.

The barley trade has varied little, values rather increasing till the fourth Monday, especially for French and the higher qualities of foreign; but the market then became dull for all sorts, even English, the fine Saale and other sorts of foreign coming into competition with it. The best malting, however, is yet high—say about 49s. to 50s.; French about 35s. to 36s., and grinding 27s. to 30s. The imports into London for four weeks were 6,852 qrs. English and 61,799 qrs. foreign, against 4,630 qrs. English and 50,331 qrs. foreign for the same time last year.

The malt trade has been steady through the month, the upward tendency being rather checked at the close.

The oat trade after evincing considerable firmness for the first fortnight on heavier arrival, became dull and has lost about 1s. per qr. in value. 40 lbs. Russian were held at 21s. 6d. to 22s. Sweden of same weight 23s. Inferior Russian and other sorts in proportion. The London imports for four weeks have been as follows: In English qualities 4,463 qrs., foreign 211,301 qrs.; against 3,074 qrs. English, 75 qrs. Scotch, 264,504 qrs. in 1871.

In beans no great demand has been experienced; but for the first fortnight, with light arrivals, prices tended upwards; but at the close, with considerable foreign receipts, business became dull, and to have forced sales, either of English or foreign, rather less money must have been taken. Present prices of Mazagans 34s., harrows 36s. to 37s., pigeon to 46s. per qr. Old being scarce, were worth 1s. to 2s. more. Egyptian 33s. The month's imports into London were 4,100 of native growth, 8,240 qrs. foreign, against 4,506 qrs. English, 16,604 qrs. foreign for the same period in 1871.

In hog peas there has been very little difference of value; the supplies being moderate, prices tended upward. But white sorts have continued in favour, and improved 1s. beyond the rise of last month, fair Canadian boilers being held at 43s., English duns 35s., maples 42s., such being scarce. The imports into London for four weeks were 2,967 qrs. English, 5,821 qrs. foreign, against 2,126 qrs. English, 960 qrs. foreign last year. The future value of white sorts will depend on the character of the coming winter, but there seems more probability of an advance than material decline.

Linseed, with moderate arrivals, has scarcely varied in price through the entire month, but since the cold weather there has been a better demand both for seed and cake. The London imports for four weeks were 34,183 qrs. against 31,467 qrs. in 1871.

The value of cloverseed has been hardening from a belief in a great deficiency in the English crop, but few samples of which have appeared, and these have been held at high rates. German and French seed has been firm also, and holders mostly asking beyond the views of dealers, who seem little disposed to anticipate the season. Fine trefoil and canary have been firm. Tares still a slow sale, though offering at 4s. 6d. per bushel.

CURRENT PRICES OF BRITISH GRAIN AND FLOUR IN MARK LANE.

	Shillings per	Quarter.
WHEAT, Essex & Kent, white old 58 to 67, new 50 58, fine 66 red.....	59 62, " 50 58, " 63	
Norfolk, Lincolnsh., and Yorksh., red, old.....	57 62	
BARLEY 31 to 35.....Chevalier, new.....	41 48	
Grinding.....27 31.....Distilling.....	33 37	
MALT, pale 66 75.....	brown.....	55 60
RYE.....		36 38
OATS, English, feed 21 to 26.....	Potato.....	27 33
Scotch, feed.....00 00.....	Potato.....	00 00
Irish, feed, white 18 21.....	Fine.....	22 24
Ditto, black.....18 21.....	Potato.....	26 31
BEANS, Mazagan.....31 33.....	Ticks.....	51 33
Harrow.....33 35.....	Pigeon.....	36 45
PEAS, white, boilers.....37 40 Maple 37 to 40 Grey, new.....		32 35
FLOUR, per sack of 280lbs., best town households.....		60 57
Best country households.....		43 47
Norfolk and Suffolk.....		40 42

FOREIGN GRAIN.

		Shillings per Quarter.
WHEAT, Dantzic, mixed	60 to 65.....extra.....	67 to 71
Königsberg	60 65.....extra.....	64 70
Rostock	61 64.....old.....	— 71
Silesian, red	59 62.....white.....	64 67
Pomera., Meckberg, and Uckermrk.	red.....	61 63
Russian, hard, 47 to 51 St. Petersburg and Riga	.....	55 60
Danish and Holstein, red 60 63.....	American	58 61
Chilian, white 67.....	Californian 65 ... Australian	64 66
BARLEY, grinding 25 to 31.....	distilling and malting	31 35
OATS, Dutch, brewing and Poland 19 to 24.....	feed	16 19
Danish and Swedish, feed 20 to 21.....	Stralsund.....	20 22
Canada 19 to 21, Riga 19 to 21, Arch. 19 to 21, P'sbg.	20 22	
TARES, Spring, per qr.....	small 35 36.....large.....	— 44
BEANS, Friesland and Holstein.....		34 36
Königsberg.....	32 to 34.....Egyptian.....	31 32
PEAS, feeding and mangle.....	32 37.....fine boilers.....	38 42
INDIAN CORN, white.....	31 34.....yellow.....	27 29
FLOUR, per sack, French.....	00.....Spanish, p. sack	00 00
American, per bbl.	25 28.....extra and dble.....	30 34

FOREIGN GRAIN ENTERED FOR HOME CONSUMPTION DURING THE WEEK ENDING OCT. 25.

Wheat.....	cwts. 124360	Peas.....	cwts. 3281
Barley.....	" 79785	Maize.....	" 12643
Oats.....	" 201471	Flour.....	" 21734
Beans.....	" 14262		

AVERAGES

FOR THE SIX WEEKS	Wheat.	Barley.	Oats.
ENDING	s. d.	s. d.	s. d.
Sept. 14, 1872.....	58 0	35 10	23 5
Sept. 21, 1872.....	58 9	37 9	22 6
Sept. 28, 1872.....	59 2	39 5	22 9
Oct. 5, 1872.....	58 10	40 1	22 4
Oct. 12, 1872.....	58 9	41 9	23 2
Oct. 19, 1872.....	58 8	42 11	23 3
Aggregate of the above.....	58 8	39 7	22 11
The same period in 1871.....	56 9	35 11	23 7

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factory as above, and sold as follows, although any other
quantity may be had, if required:—

4 lb.	20	sheep, price, jar included.....	\$0	2	0
6 lb.	30	"	"	"	0
8 lb.	40	"	"	"	0
10 lb.	50	"	"	"	0
20 lb.	100	"	"	"	0
30 lb.	150	"	"	"	0
40 lb.	200	"	"	"	0
60 lb.	250	"	"	"	1
80 lb.	300	"	"	"	1
100 lb.	400	"	"	"	1
100 lb.	500	"	"	"	2

Should any Flockmaster prefer boiling the Composition, it will be equally effective.

MOST IMPORTANT CERTIFICATE.

From Mr. HERBPATH, the celebrated Analytical Chemist :—
Bristol Laboratory, Old Park, January 18th 1861.

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To Mr. Thomas Bigg Professor of Chemistry.
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"Scoulton, near Hingham, Norfolk, April 16th, 1855.

"Dear Sir, in answer to yours of the 4th inst., which would have been replied to before this had I been at home, I have much pleasure in bearing testimony to the efficacy of your invaluable 'Specific for the cure of Scab in Sheep.' The 100 sheep were all dressed in August last with 84 gallons of the 'Non-poisonous Specific,' that was so highly recommended at the Lincoln Show, and by their own dresser, the best attention being paid to the flock by my shepherd after dressing according to instructions left; but notwithstanding the Scab continued getting worse. Being determined to have the Scab cured if possible, I wrote to you for a supply of your Specific, which I received the following day; and although the weather was most severe in February during the dressing, your SPECIFIC proved itself an invaluable remedy, for in three weeks the Sheep were quite cured; and I am happy to say the young lambs are doing remarkably well at present. In conclusion, I believe it to be the safest and best remedy now in use. "I remain, dear Sir,

"I remain, dear Sir,

"For JOHN TINGEY, Esq.,

"R. RENNEY.

"To Mr. Thomas Bigg." "R. RENNEY.

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DECEMBER, 1872.

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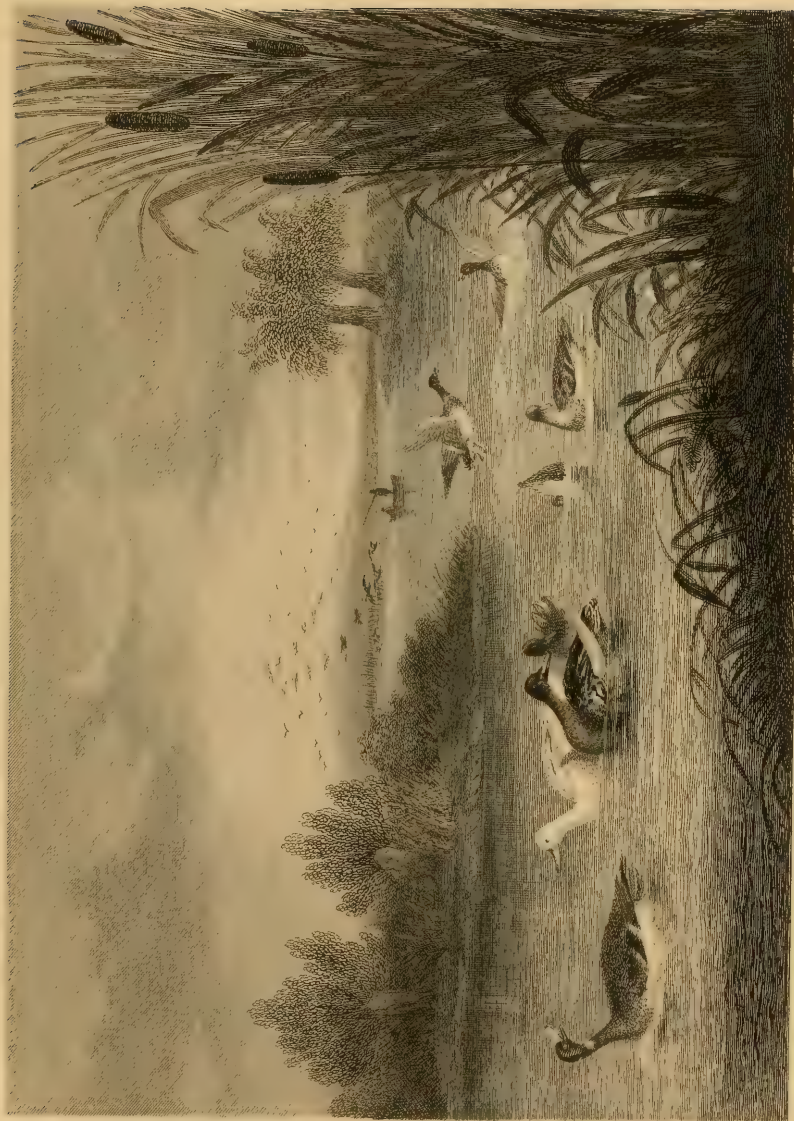
DECEMBER, 1872.

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by J. P. Wilson, 1841.

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THE FARMER'S MAGAZINE.

DECEMBER, 1872.

PLATE I.

AERONIAN;

A CASTLE-MARTIN BULL, THE PROPERTY OF MR. WALTER JENKINS, OF GLANWERN, TALSAEN, CARDIGAN.

This bull, bred by Mr. Thomas Jones, of Wernligos, Whitland, Carmarthenshire, was by a black, shaggy-coated bull from Pembrokeshire, out of Jolly, a black cow, her dam Beauty, both in Mr. Jones' herd.

In 1869, as a yearling, Aeronian took the second prize at Llanboidy.

In 1870, as a two-year-old, he took the first prize for black bulls of any age again at Llanboidy in September; in the week following he took the first prize at Carmarthen United Show of the three counties—Cardigan, Carmarthen, and Pembroke—in an any-aged class of black bulls.

In September, 1871, as a three-year-old, he took the first prize at Lampeter.

In 1872, when 4 years 4 months 2 weeks and 6 days old he took the first prize at the Royal Agricultural Society's meeting at Cardiff, and in the following September, at Llanboidy, the champion prize of £20 for black bulls, open to South Wales.

Of the black cattle we thus wrote in our report of the Cardiff Show: "In the mixed classes of Welsh breeds, including black Castle-Martins and red and black Montgomeryshire, the competition was very limited, and the quality very moderate. After all we have heard of late of the famous black cattle of South Wales, of how well they do, and of the high prices they make, we should be inclined to consider that their advocates did not do justice to the breed at Cardiff. The bulls are lengthy, slack-framed animals, with some individuality of character, but thin in their touch and gaunt in their frames, and if our memory serve us, we have seen a better show at Carmarthen, as there may be again for the local champion prize in the coming autumn. Still, Mr. Jenkins' best old bull is a prize specimen of the Castle-Martins, and has been winning about the country for the last season or two."

The Judges thus report in the new number of the Society's *Journal*: "We are of opinion that the cattle of these breeds were an attractive feature of the show, and we were much pleased with the uni-

formity of character they displayed, more especially those called Castle-Martin. Nearly every animal to which we awarded a prize possessed great merit, and well deserved its distinguished position. Many of them have well-shaped heads and horns, with prominent eyes, soft hair, and thick mellow skins, indicating a superb quality of beef and good feeding qualities. They are also short-legged, having hardy constitutions, and a peculiar adaptation to the country they occupy. Some, only a few, had sour heads, small eyes, hard hair and skins."

A gentleman from the neighbourhood of Pembroke says further: "It is commonly said that our Blacks are derived from the same original stock as the Sussex, Devon, and Hereford cattle. As with other middle horned varieties, the quality of their milk is excellent; but, unlike some of them, the quantity is abundant. They are hardy, but slow in coming to maturity; good doers out of doors during winter as two-year-olds, and coming fast when turned into good pastures the following summer; hence their popularity with graziers, and the great trade through dealers or middle-men, who take them from Wales to Barnet and other large fairs. A curly coat is liked, and the usual points of good loin, hide, well-set tail, &c., are thought much of. The horn is not attended to quite so assiduously as formerly; in fact, the breed does not now receive half the consideration it had twenty years ago, probably, as you suggest, because the Shorthorn and Hereford cattle suit the rich farmer better. Crossing is carried on without any system whatever. Calves are reserved for bulls, regardless of every sound reason, except, perhaps, the probability of their dying through weakness if subjected to the usual Eastern operation, and the best heifers are, as a rule, sold fat to the butchers. We are now trying to get up a little enthusiasm in the matter, and the agricultural societies have subscribed between them £50 towards some champion prizes for bulls, to be competed for at Carmarthen next September. A Herd-Book is also in contemplation, to include not only Castle-Martin, but also Anglesea Blacks, a rather heavier variety of the same breed."

PLATE II.

NO FALSE ALARM.

"Give us in any part of the world—in the eastern counties of our own country, in France, or amid the hills of Scotland, where the tarns lie like oases among the hills—some far-off solitary pool or marshy lake, clear water only in the centre, reeds and rushes thickly bristling round—there might we not hope to see flappers plentiful

as frogs, duck, teal, widgeon—who knows?—wild geese and swans, from our crouching station; and there might we not again, amidst the ducking, and diving, and gobbling, and bustle of a first arrival, do execution as of yore?" So wrote Craven, in his *Recreations*, although he admits that wildfowl shooting "reads like

anything but sport. There is certainly no accounting for taste, especially the taste that takes its pleasure in the mud on the Hampshire coast, or navigates the bay of Tees in a yacht which resembles nothing so much as a pig-trough. Some men would imagine crawling on all-fours, through a wilderness of sludge, only fit for a Nor-

folk Islander; some think it capital fun, and follow it on the 'oozes,' as the scavengers' continents are called." If the shades of Hawker and Carleton should happen to cross each other in Elysium, they would scarcely promise to agree.

THE FARMERS' CLUB.

FREEDOM IN CULTIVATION AND SECURITY OF CAPITAL.

The first meeting of the Club after the autumnal recess was held on Monday evening, November 4, in Salisbury-square, and was very well attended. The chair was taken by the President of the year, Mr. H. Cheffins. The subject fixed for consideration to be introduced by Mr. T. Horley, jun., The Fosse, Leamington, was "Freedom in Cultivation and Security of Capital."

The CHAIRMAN, in opening the proceedings, said: Gentlemen, allow me to express the great pleasure which I feel in meeting you at our first meeting for the session of the Club now commencing. Some of my predecessors have at meetings corresponding with the present congratulated the members on the results of the harvest which were anticipated at the last meeting. All I shall do is to congratulate those who have had pretty good crops without much trouble in getting them in, and who have not had any cattle-plague. As regards the subject about to be introduced by Mr. Horley, I wish to state that the committee have this day agreed to appoint a sub-committee to meet Mr. James Howard and Mr. Sewell Read on the subject of Mr. Howard's promised Bill relating to TENANT-RIGHT, the object being that the opinions and feelings of this Club may have something like an authoritative expression through that measure. In conclusion the chairman read a letter just received by the secretary (Mr. H. Corbet) from Sir T. D. Acland, M.P., expressing great regret that he was unable to attend that meeting, the hon. baronet adding that he should look forward to *The Mark Lane Express* report with much interest (cheers).

Mr. HORLEY then read the following paper:—

A feeling of my utter inability to do justice to the subject set down for discussion this evening, and the fear that I have been unable to devote to its consideration the serious attention it requires, has caused me to almost regret having undertaken it. The subject occupying our attention, if not instrumental in the establishment of the Club, very soon became a prominent feature; and from the all-absorbing interest with which it filled the agricultural mind so far back as 1846, when it became apparent the days of Protection were numbered, one would have been led to expect that the desired end would have long since been attained; but although the influence brought to bear on the public mind has caused it to advance considerably, it can never become universal or beneficial to the occupiers of land generally until security for the capital invested by the tenant in the occupation and improvement of the soil is legally secured to him. I trust the remarks on this subject to-night will assist in bringing about this much-desired end—freedom of cultivation and security for capital. In reviewing the discussions that have taken place by the Club from its commencement in connection with the subject either directly or indirectly, we may safely call it the pioneer. And although we cannot claim either to having brought it before our legislators, or that any recognised system of security or freedom has become general, yet considerable progress has been made; and its not being further advanced only shows the indefatigable and persevering energy requisite to give to the British tenant-farmer security for his capital and to release him from the trammels and antiquated rules laid down for the cultivation of the soil in ages gone by, when our country was thinly populated, little or no attention paid to the arts and sciences in con-

nection with either agriculture or manufactures, and when the commerce of the country was in its infancy. When we look back to the early days of the Club, when this matter was ably introduced by Messrs. Shaw, Baker, Fisher Hobbs, and others, and during almost each succeeding season by some of its leading members—and I would here call attention to the paper read at the May meeting in 1870 by our worthy Secretary, which gives a concise history of what the Club has done from its commencement, and claims for the British tenant-farmer, justice, and fair play—we must conclude that we have a great incubus upon us which it is very difficult to remove; but I believe the time is come when more decisive steps must be taken if the tenant-farmer is to hold his own in the race with his fellow-men. The high price of provisions, and I may say the scarcity of meat throughout the country, is setting people to think of these matters who never thought of them before, and to inquire if everything is done in a country like this to produce all that can be produced from our own soil. The question must be answered, and I think all practical men will give but one reply to this inquiry, namely, that the produce of our land may be very materially increased if all the resources of the soil are developed by the science, skill, and capital that is, in but few instances, brought to bear upon agriculture. Although the benefit derived from these discussions has not been so direct as could be wished, I think this Club may fairly congratulate itself in being the leader of this great work, and by consistently advocating sound principles, has in no small degree influenced public opinion on the subject, and which is now so freely and generally expressed throughout the length and breadth of the land, that the British tenant-farmer is not placed in that position of security which is needful either for his own benefit or for the good of the community at large. During the last twelve months scarcely a paper could be picked up without containing some allusion to the subject, whether the meetings at which they were made were held on matters connected with agriculture or not. The experience and the changes which each year, each day I may say, brings must cause the most prejudiced to admit that a change is necessary, and after many years of thought and study I feel thoroughly convinced it is absolutely necessary that compensation for unexhausted improvements should be universal and compulsory, whether land be held under lease or yearly tenancy, and such freedom of cultivation allowed as to enable the tenant to make the best of the land he occupies; and until these conditions are brought about, little progress will be made in increasing our produce of food for the people. The large quantity of land that is in the hands of trustees, corporations, and tenants for life, &c., would alone render legislation necessary; and this would give a feeling of security for capital hitherto unknown to the great bulk of British farmers, and until security is obtained we shall never see the soil of England produce that amount of food for the people which they may fairly expect from it. It is generally admitted that there is nothing so grateful as land; but how few men depart from the beaten track and invest a large amount of capital in raising the value of another person's land, without having either to pay for the improvements themselves or let others reap the benefit! The fact cannot be disputed that the interest of the tenant in the soil is at present such that he would not be justified, unless under exceptional circumstances, in maintaining the maximum fertility of the soil. The altered circumstances of the times in which we live will not allow agriculture to be an exception to the laws which govern other great interests; the large amount of capital necessary for the *thorough* cultivation and occupation of the

soil is more than double what it used to be, for it is no uncommon occurrence for as much capital to be invested now in the machinery and dead stock upon a farm, as was considered sufficient to occupy the same a few years ago; and all who have paid attention to the matter will, I think, concur in the opinion that steam, science, and mechanics will occupy a still more prominent part in agriculture than they have hitherto done. These circumstances combined, necessitate not only more security for invested capital and compensation for unexhausted improvements, but greater liberty of action generally, to allow the occupier to make the best return he can from his occupation; and so long as good crops are grown and a heavy stock of sheep and cattle is maintained upon the farm, landlords need have no fears for their estates nor inquire into the details. Agriculture is associated with every station and occupation of life, and has ever been uppermost in the minds of the first authors, historians, politicians, economists, scientific writers and others. Swift tells us that "the first cause of a kingdom thriving is the fruitfulness of the soil to produce the necessities and conveniences of life." Adam Smith says, "Whatever increases the fertility of land in producing food enhances not only the value of the land upon which the improvement is made, but contributes likewise to increase that of many other lands, by creating a new demand for their produce. That abundance of food, of which in consequence of the improvement of land many people have the disposal beyond what they themselves consume, is the great cause for the demand for the precious metals, and other conveniences and luxuries. Food not only constitutes the greater part of the riches of the world, but it is the abundance of food which gives the principal part of their value to many other sorts of riches." Liebig says, "Every step in advance made by agriculture serves to alleviate the sufferings and troubles of mankind. Improvements in agriculture constitute the only solid foundation for further progress in all other branches of knowledge; but observation and reflection are the fundamental conditions of all progress in natural science; and agriculture presents in this respect ample room for discoveries." If these remarks be true, is it not then a national duty to do all we can for the development of our agriculture, and leave no stone unturned that will tend to increase the home production of food? Can it therefore be believed, according to an article in *The Times*, taken from our Board of Trade Returns, that a system which requires £60,000,000 worth of corn, beef, mutton, &c. imported annually into this little island as food for the people is satisfactory; and is not this reason sufficient for inquiry? Can anything be done to remedy it? Does our land produce all that is capable of doing? Is that security given which will cause capital to flow to the cultivation of the soil, and leave the occupiers that freedom of action necessary to allow them to make the greatest return from the land? I fear these questions must generally be answered in the negative. An able article on this subject, to which I will call your attention, appeared in *The Agricultural Gazette* of January the 27th of the present year, the Editor of which has written many valuable leaders on this subject. It is there stated that an increase of 27s. 6d. per acre over all the land under all kinds of crops, bare fallow and grass, would amount to the sum we pay annually for foreign corn, meat, and other articles of food, and we may fairly assert that as much is paid to foreigners for articles we might as well grow at home, as the whole agricultural rental of the United Kingdom amounts to. A fact like this ought to strike the landowners of this country. Why is their property not made more productive? Is it because they don't take a sufficient personal interest in their estates, and in those who dwell upon them and cultivate them? On the contrary, they display an interest most anxious and particular. They regulate, administer, direct, and superintend, know, and praise, or blame, every person, process, thing. Prizes are offered for the best farms, for the best gardens, for the best cottages, for the best servants, for the best families. No one can say that there is not the most earnest interest taken by the landowner in the welfare of his neighbourhood. At every agricultural meeting there is ample evidence that the condition of the farmer and his labourers occupies his earnest and most anxious thought; even their opinions are cared for and directed, and we see it announced that the noble owner of large estates in one of the midland counties has thought it necessary to inform his tenantry in reference to a forthcoming political contest, that they may vote for whichever candidate they please! But

what is the upshot of this system? Has the condition of the agricultural labourer been satisfactory under it? Is it satisfactory now? Are the tenants of the land all as prosperous and as energetic as we see those engaged in other manufactures or in trade to be? Is the land as productive as it ought to be? It was stated indeed by Mr. McNeel Caird in his exceedingly able lecture before the Scottish Chamber of Agriculture, that in the past twenty years an advance to the extent of £16,000,000 has been made in the annual productiveness of the country by merely exhorting the farmer to effort. But that is not more than 6s. an acre over its cultivated area; and in that time the money paid for imported corn alone has increased £20,000,000 annually, or nearly 10s. an acre. It is plain that the system of personal interference, exhortation, and guidance, has been a failure. Is it not worth while to try the other plan? What, indeed, is the feeling on this subject, uppermost at every agricultural meeting, where there is any outspoken independent thought? If Mr. Mechi addresses an agricultural meeting in Essex on Deep Cultivation and Steam-ploughing, he is immediately followed by a speaker on the need of Security for Tenant's Capital, if additional outlay be required from him. If Sir Michael Hicks Beach delivers a thoughtful, kind, considerate address, as president of a Chamber of Agriculture in Gloucestershire, up gets Mr. Snowsdel to say, "There is one point omitted in Sir Michael's excellent address which is of the most vital importance to us as tenant-farmers, and that is the repayment for all unexhausted improvements." If a good practical farmer like Mr. Burnett, of Kingscote, dissenes before a club (of which he is secretary) the question, Is it advisable to increase the working Capital of the Agriculturist? after pointing out the immense scope for such an increase which exists, he gives this answer to the question, "Under the present system of holding—no." And yet it is only by increasing the capital of the farm that its productiveness can be increased. Thus only can more labour be profitably employed, more food produced, and more rent be paid. We venture, therefore, to submit to the landowners of the country that, instead of trusting so much, as heretofore, to their own superintendence and direction of affairs—instead of insisting that this, that, and the other shall be the rule of cultivation, and of management on their estates—instead of standing in *loco parentis* to all upon their land, and determining what is right for all, and seeing that it is carried out, they had better stand aside a little, and trust rather to the efficiency of those motives, common to all men, which are found satisfactorily to guide human conduct in other departments of life. They have land to let, and naturally desiring good neighbours, they may well insist on care in the selection of a tenant. But, having accepted him, let them give him the land for a term of years at the accepted rent, following Lord Leicester's example, and leaving him to cultivate and manage the farm as he pleases, buying and selling and dealing with his produce as he pleases. Require him, if you will, to revert to the four-course rotation of cropping during the last four years of his lease, or agree upon a scale by which the value of whatever is unexhausted of his outlay on manures and foods shall be repaid him when he leaves. Do not, however, follow the example of the Holkham lease, in respect of all the petty gifts and services it requires from the tenantry; but, having chosen a good man, with capital enough, leave him free to make what profit he can out of a twenty-one years' holding, certain that the landlord, if anyone, will in the long run have reasons enough to join in the chorus of praise which we are told on the best authority will greet him if he does well unto himself. The possibility of increasing the produce of our country to the extent named in this article may be ridiculed by some, doubted by others, and utterly denied by many; but men of observation and thought, who have paid great attention to, and studied the subject, and from their business habits or desire to be well informed upon the matter, will, I think, agree that a very large proportion of the land under cultivation in the British Isles does not produce more than one-half what it is capable of doing in the shape of food for the people, and that a very small portion indeed is farmed up to the capability of the present occupier, for fear he should have to pay for his own improvements in the shape of an increased rent, or in case of removal or death he should leave behind him a large amount of capital upon which he would have no legal claim. No doubt the land-laws of this country, which were framed and grew up under a very different state of things to those which exist at present, require some revision. Facilities for the sale of en-

cumbered estates and the simplifying the transfer of land would be more beneficial to the owners and occupiers of land and to the labourers in this country than anything connected with agriculture that has for a long time engaged the attention of the Legislature. The increasing wealth of the country, without any extension of our broad acres, has tended to make the possession of land eagerly sought after more for the sake of position than income; therefore the nominal possession of larger estates than the owners have means to perform the proper duties of landlord upon, so that the property may yield all that it can to the country, is as detrimental to the welfare of the State as the half-cultivation often carried on for the want of freedom and security. The law of distraint for rent is also one that is occupying a great deal of attention among thinking men. So long as there was a difficulty in finding capital in the country this law might be necessary, but now when capital is everywhere seeking profitable employment it is certainly open to many objections, and the opinion that this should not be the security for rent is increasing. It is certainly not so objectionable as the law of hypothec in Scotland, but doubtless has a tendency to cause undue competition for land. Mr. Hope says: "The law of hypothec is now all but universally considered by the farmers of Scotland to be the greatest of all hindrances to the progress of agriculture and to the independence and welfare of their class." Mr. Wilson, of Edington Mains, says, in a letter, that "one of the strong objections to this, is that it has given countenance and currency to the delusion that farming is a business in which a man may safely engage with the very slenderest means, if only he be steady and industrious and have a good knowledge of the business. It is very sad to think of the multitudes of such men who, by attempting to farm on such means, have speedily lost every penny of their hard-earned stores, and the still greater numbers who in the same way have consigned themselves to a life-time of care and privation and ill-requited toil. The truth is, and it cannot too often be insisted on, there is a certain indispensable amount of capital proportioned to the size of the farm (whether that consists of 10, 20, 100, or 500 acres), without which no man, be he ever so industrious and prudent and skilful, can possibly farm land with advantage to himself or any one else." Mr. Wilson then goes on to show that "one farm differs from another in productiveness not so much on account of the one tenant's greater skill or industry as of his having larger means than the other for improving his farm and conducting his operations." We must not forget that although our population is annually increasing the quantity of land available for the production of food is diminishing, the large number of acres absorbed by public works, the increase of towns, suburban and country residences, are no small deductions; and I gather from the report of the agricultural returns for the Board of Trade for 1872 that the quantity of waste land available for cultivation, although considerable, is not so large as generally computed: we must also remember that with the present state of the labour market much extra cost will be involved in reclaiming it. We often hear surprise expressed that, with the large amount of capital that is ever seeking employment in this country, more does not flow to the land; but those practically acquainted with the difficulties do not wonder. Capitalists require security, and this can seldom be obtained; then, again, should any, for special requirements on large undertakings, or farmers who have not sufficient capital at command, need temporary assistance, they cannot expect to obtain it on so good terms as others, because they have no security to offer, and the knowledge that the tenant in the majority of cases has no claim upon it, if spent in improvements, in case the landlord chooses to put in force his legal rights, or if the farm should change hands or death ensue. Merchants, persons in trade, or even speculators, find no difficulty in obtaining advances on far less tangible security than the occupiers of land ought to be able to offer; but as things are at present constituted it cannot and will not be obtained by the occupier for the advancement of agriculture, however much we may be dependent for our daily food on foreign produce; and should we ever be engaged in broils with foreign States this will present itself in a much more serious form than it has ever done before: the requirements of the people are greater, and our increasing population finds us every year making less provision per head of the necessities of life. We may divide into two parts the difficulties under which the British tenant-farmer carries on his business at the present time. Under the first we may consider all that interferes

with the security of his capital; and under the second, all that interferes with free cultivation, and his obtaining the largest amount of produce from his occupation. A few of each of these difficulties I will notice. First, let us then inquire how the great bulk of the land of England is held, and we shall find it is with six months' notice to quit, and no claim for compensation for any capital expended, and which the tenant has had no opportunity of benefiting by, or only very slightly. I contend that the capital of the tenant used in the cultivation and improvement of the farm he occupies ought to be as well secured to him as the fee-simple is to the owner; and if the increasing population and the circumstances of the times in which we live require alterations, it is the duty of our legislators to attend to such; for, rely upon it, the less we depend on foreign nations for the supply of food for the people, the better for Old England. We know by bitter experience that a large proportion of the food imported has to be paid for in hard cash. The conditions upon which farms are let, and the stereotyped agreements generally in force, although very often without any idea that they will be carried out, cause a feeling of insecurity it is scarcely possible to estimate; and although it may be said each party ought to make half the bargain, it is known to be impossible, except in a very few instances. Our broad acres cannot expand, and not only do applications increase from those who wish to make a livelihood from farming, but in many districts a large competition for farms arises from persons engaged in other occupations who wish for a taste of country life, without either the idea of making money or producing the most that can be from the land. In a paper on "Hindrances to Agriculture, from a Scotch Tenant-farmer's Point of View," by Mr. George Hope, it is said: "As we cannot increase the area of the kingdom by a single acre, it is clear the nation has a deep interest in the proper cultivation of the acres we have, and that every obstruction should be removed that tends to prevent the application of skill and capital to the soil." Every practical agriculturist knows there are no other means except this application of skill and capital by which produce can be increased and the effects of untoward seasons rendered less disastrous. Unhappily there are many hindrances all tending to prevent the full development of the resources of the soil by tenant-farmers, to the loss of both landlords and tenants. These hindrances are becoming more apparent every day, particularly to the most energetic and skilful of the practical agriculturists. As a body tenant-farmers are compelled to think seriously of the position in which they are placed, as it becomes more and more necessary to apply greater skill and a larger capital to land in order to raise increased crops with which to pay steadily advancing rents to landlords and higher wages to agricultural labourers. It might naturally be supposed there was nothing very far wrong when landlords are able to obtain larger rents, and labourers higher wages; but a little examination will show that tenant-farmers have good reason for feeling discontented at the unfair conditions under which they are compelled to conduct their business. Here are first the terms of agreement under which land is almost universally let; and secondly, the effects produced by the common law of the land, and various acts of parliament on the business of farming, and on the class who follow agriculture as a profession. Beginning then with the terms of agreement entered into between the contracting parties who let and take land. Practical farmers are well aware that the amounts of landlords' rents and tenants' profits largely depend on the terms of the contract entered into between the parties. It might naturally be supposed that self-interest would be an unerring guide to the true solution of the problem of what was best for both parties. This, however, is far from being the case. The terms of agreement, and the form of leases, are almost invariably stereotyped on every estate. Singularly enough in each separate district they will be found to be nearly uniform, and even taking the kingdom as a whole, whatever modification of terms there may be, these seem to depend more on situation and climate than on principle. Almost universally there appears to be the same evident desire to prevent the tenant exercising his skill beyond the ordinary prescribed routine. The rotation of crops which the tenant is bound to follow, is generally carefully stated; and no deviations are allowed under heavy penalties without the written sanction of the proprietor. More frequently the production of the most valuable and best paying crops is restricted in quantity or prohibited altogether unless under conditions impossible to fulfil.

Scotch farmers are right in holding it as an axiom as true as any in Euclid, that security of tenure is absolutely necessary and essential to produce profitable husbandry. Again, it would be a great encouragement to continued good farming, and thus a benefit to the country, if all tenants under leases were entitled by law to allowances similar to those granted in the Lincolnshire agreements, whereby payments are made for improvements executed, and for manures left in the ground by the out-going tenants. Common honesty dictates that when a tenant is compelled to leave his farm, the presumption in law should be that payment should be made for his property left on or in the land, and without this provision no lease or agreement can be truly liberal or even a fair arrangement." I am quite of opinion that leases renewable, if agreed upon, some years before their expiration, give the best encouragement and security for capital; but certainly whether land is held under lease or yearly tenancy, the capital of the tenant expended in improving or keeping up the fertility of the farm to the end of the term, and from which from want of time he cannot have received the benefit he is entitled to, ought to be his own, and as easily obtainable as the payments for acts of husbandry, and this security is even more necessary under yearly tenancy, which I know is preferred by many when accompanied by fair allowance for unexhausted tenants' capital, and a much longer notice to quit than is usually given. Another source of insecurity is the state of the law as regards buildings, which in a great many instances are required, and can only be obtained except by the tenants' erecting them himself. It certainly does appear very hard that when this is done, he has not only no claim upon them, nor can he remove them, but in accordance with many agreements he is bound to leave them in good repair. One of two things the tenant is fairly entitled to, either that they be taken to at a valuation by the landlord, or that he may sell or remove them, making good any damage done by their erection. The continual revaluations that have taken place in many parts of England, also give a feeling of insecurity to tenants, that none but those acquainted with these matters can imagine, and no wonder; for they justly feel that in a large number of instances tenants are placed at a great disadvantage. A stranger is called upon to value an estate. Let him be ever so competent and ever so careful, what is the result? He taxes the energy, industry, and capital, of the improving tenant, who feels that he must either submit or leave his capital for some one else to reap the benefit of; but if he had a legal claim for what is fairly his own, he would then be placed in a different position, and could calculate nearly what he would have to receive in case he gave up his occupation: this would also enable him to make fairer terms for the future occupation of his farm. It is in many instances, and will continue to be, a cause of great anxiety to occupiers, and produce an effect very detrimental to the advancement of agriculture. No doubt many here present can call to mind estates and farms that are yearly getting into a worse condition, and more impoverished from the want of greater freedom and security. As regards freedom of cultivation, I think the agreements generally in force do not allow sufficient latitude for the energy and skill of improving tenants; and as it is known how entirely dependent we are upon seasons and circumstances, they prevent our agriculture advancing in the way it would do, if the tenant were left to do the best he could for himself, binding him to pay, upon giving up the occupation, for any damage he had done to the land, or for any mischief he had caused by the course he pursued to the future crops to be grown the year following the termination of his tenancy. Small enclosures and hedge-row timber are also no small hindrances to freedom of cultivation, in some instances absorbing something like one-tenth of the produce. It is not only the damage they do, but the amount they add to the cost of cultivation, and this in many instances is very considerable, and is daily becoming more so. The progress of steam cultivation is materially retarded by small enclosures, and by timber on arable land; and I feel sure that the timber grown upon the tillage land of this country costs as much annually as it is worth. The expense of cultivating a field of a given area is more when surrounded by timber than without it, and most of you know the baneful influence it exercises, not only so far as the shade of its branches and the extent of its roots, but by preventing the free circulation of light and air from exercising their beneficial influence. A land-agent, an excellent farmer and a man of much experience, remarked to me a short time since that, he had but one tree on his

arable land (about 400 acres), and if he were to commence farming again he would like to have but one fence, and that round the outside. I must now call attention to Game, which in many instances is a serious preventive to the free and full cultivation of the soil. How impossible and futile it is to endeavour to farm well, and grow good crops, where game is preserved to any great extent, the tenant having no controlling power. The present fashion of sporting, viz., the battue system, is entirely incompatible with growing food for the people. And although many of us would be very sorry to see game done away with entirely, something *must* be done to stay the progress of over preservation, and give the occupier some control over the quantity that feeds upon his farm. Some very strong evidence on this subject was given before Mr. Bright's Committee. One passage from the late Lord Hatherton's evidence I will first quote. He said: "I soon found, as a farmer desirous of introducing amongst my tenantry a better system of cultivation, that it was utterly hopeless to do so unless I completely destroyed the hares, for the attempt to reduce them was useless, as a good season repaired their number to such an extent that I found there was no effectual cure but destruction." Many startling facts were brought to light also by the committee that sat during the last session, and whose duties are not yet concluded, but the result of their inquiries will be looked for with anxiety. And we cannot but note the paramount importance that has lately been given to this matter in Scotland, not only by the cultivators of the arable land but by the Highland sheep-farmers. The subject which has been occupying the attention of all classes of people throughout the land during the last six months—the condition of the labourer in connection with the land—is also one which exercises a large influence in free cultivation: the numbers of cottages that were pulled down in close parishes before the Union Assessment Act came into operation has caused a scarcity of labourers within a moderate distance of their work, that materially interferes with the modern system of farming. I believe that long before the present agitation and unsettled state of the labour market appeared, the want of any tie between the employers and employed (except the mere wages received) tended to add to the difficulty, and found subjects for the agitators to make more of than it deserved. I know of many instances where even the persons whose duty it is to superintend the stock have to walk long distances. If we look at millowners, manufacturers, or coalmasters, we find the first thing they do is to provide accommodation for those they employ close to their work. But how little is this thought of in agriculture! It will not be a directly profitable investment, but I believe the home of the agricultural labourer must have more attention from the owners of the soil; and although many tenants may be crushed before these duties are thoroughly realized, it is really the landlords' question, and deserves their serious attention; for depend upon it, if any material increase in the cost of cultivation is incurred it must be met by more efficiency on the part of the labourer, and more freedom of action and security for the tenant. The extent to which this topic has occupied the attention of our great territorial possessors is certainly very remarkable; and I think (after reading most of the speeches that have been made upon it) much more good would have arisen if, instead of the question of wages between employers and employed, co-operation, and other experiments, attention had been drawn more to the condition of the labourers' homes, and their habits, with a view to teaching them to appreciate good dwellings, showing them that any material improvement in their condition must spring from themselves, from habits of thrift, economy, and temperance, and a proper spirit of independence, that will cause them to provide for themselves and their families, instead of seeking relief from the parish immediately they are out of employment or incapacitated by temporary sickness, which has certainly been encouraged to a great extent by the lax administration of out-door relief. The need of the alterations necessary for the fuller development of our agriculture, particularly as regards the points to which I have alluded in this paper, has been forcibly brought forward by many men in all stations of life. The speeches of Lord Derby, at Liverpool last year, and at Preston lately, show the deep interest he takes in the matter, and the thought he has bestowed upon it, and carry with them a weight and conviction not easily estimated. The lease Lord Leicester has provided for his tenantry is also another instance of the importance attached in high stations to these matters, although

to a few of the leading points and some of the minor details strong objections may be raised. *The Mark Lane Express* well says of the Holkham lease, "Lord Leicester has been able to preserve the main idea by which he started, although this is fettered and clogged with conditions, or perhaps more properly 'set' in the mere verbiage of a solicitor's office." We must, however, admit that it is a great advance, but time will not permit a detailed discussion on so important a subject. I know some persons, and perhaps some present to-night, will say. We have much greater cause to contend for security for capital than for freedom of cultivation. I would call the attention of such to what I consider strong grounds for the latter. I believe one great failing of nearly all agreements is, that they are hampered with conditions to protect the landlord against bad tenants, and bad cultivation, without any encouragement or inducement to clean and high farming, and I consider it both hard and unnecessary that the good should have to suffer for the negligent—not only so, but the production of food for the people is thereby diminished. I feel sure we shall be told it is necessary to protect landlords, and this no one will deny; but I would say how can you do this so well as by giving encouragement by free cultivation and security for capital, reserving for arbitration any claims that may arise during, or at the end of a tenancy, for bad cultivation or injury to future occupation. Properly constituted boards of arbitration, established in every county or district, would be very beneficial. I will call attention here to the remarks of Mr. Randell, of Chadbury. Some years since, at the Midland Farmers' Club (on the occasion of a paper read there by Mr. Masfen), he drew attention to the absence in nearly all agreements of stipulations for clean farming, and after alluding to the agreements he had in use on several large estates, which contained clauses compensating the off-going tenant for land that was clean and fit to plant on the one hand, and charging him with what was not in a good state on the other, he briefly remarked: "The first thing a man does on taking a farm is to get it into a good state of cultivation, and the last on leaving is to bring it to as poor a state as he can." This is undoubtedly the usual practice, and a very ruinous one it is, which is forced upon the agricultural community by the fact that if the farm be entered upon in a bad state of cultivation, there is no compensation for leaving it in a better. Some inducement is necessary to make it the interest of the tenant to farm well to the end of the tenancy: this requires compensation for good, and a penalty for bad farming. A committee appointed some time since in the Vale of Evesham, for the purpose of considering the best means of protecting landlords against injury to their property, and giving compensation to the tenant for unexhausted improvements and more freedom to the cultivation, and of which Mr. Holland was chairman, state in clause 3 of the agreement they propose that there should be no stipulation as to cropping, but if any dispute arose it should forthwith be settled by arbitration. Mr. Thompson, in an able paper on the "Progress of English Agriculture," written in 1863, refers, after speaking of the benefit which arises from leases, and compensation for unexhausted improvements, to the evils arising from the prevalent custom of letting farms at will, or on agreement with six months' notice to quit. These evils, he says, though apparently of a very different kind, such as injury to the public by inadequate cultivation of the land, and injury to the tenant, who, without sufficient cause, is suddenly dispossessed of his holding, are all referable to the same cause, viz., "Want of sufficient security for the capital of an improving tenant," and recommends nothing less than eighteen months' notice to quit. Our friend Mr. C. S. Read, M.P., at the meeting of the Central Chamber in May last, drew attention to the sensitiveness of tenant-farmers and others present at the idea of any interference of the Legislature on the subject, and pointed out with a clearness for which he is generally distinguished, that Legislation on the matter would no more interfere with the rights of landlords than it did in other relations of life. He said every Act of Parliament was an interference between somebody and somebody else. His views upon these matters have been brought so often and so lucidly before you, that it is unnecessary to say more. Our friend Mr. J. Howard, M.P., who endeavoured to place the matter prominently before the House of Commons during the last session, although then without success, will, I feel sure, not fail to take an early opportunity of doing so, especially if he receives the promise of support we

have a right to expect from the representatives of the agricultural interest. The report of the committee that sat in 1848 on "Agricultural Customs" (a condensed digest of which, by the late Mr. Shaw and Mr. H. Corbet, should be studied by us all), is a source of astonishment to everybody who reads it. I cannot but believe that even with the small direct representation the tenant-farmers of England now possess, we should have on a committee appointed on such a subject at the present day men who would arrive at a very different conclusion to the one set forth in that report, even upon the same evidence, and this I believe could be made much stronger now than it was then. I wish before I conclude to draw your attention briefly to the reasons adduced by the Committee of this Club in 1847 in support of Mr. Pusey's TENANT-RIGHT Bill, to which I think it very desirable to refer at this time. The Club Address was very extensively circulated in the following shape:

1st. Because occupiers of land having a very large amount of capital engaged in the cultivation of the soil, bearing a considerable proportion to the fee simple of the land, have a right to as full security for their capital as all the other industrious classes of the community.

2nd. Because the nature of the tenant farmers' occupation is such as to render it impossible to carry it on advantageously without investing capital, to be reimbursed at a future period; and hence security of tenure with compensation for unexhausted improvements is absolutely necessary.

3rd. Because at present security of tenure is the exception, not the rule, in England and Wales; the greater part of the land being held on yearly tenancy.

4th. Because compensation for unexhausted improvements would, by affording security to the investment of capital, induce a far more extended application of it to the cultivation of the soil.

5th. Because security to capital would stimulate the cultivators of the soil generally to adopt a better and a more improved system of husbandry; thereby greatly increasing the gross produce of the soil—a matter in which the public at large is deeply interested.

6th. Because the gradual increase of population and enlarged demand for produce render all available improvements in agriculture no less acts of private duty than public policy.

7th. Because where land is held for a term of years, either under lease or by agreement, compensation for unexhausted improvements at the end of the term would put an end to the system of injuring the land, now necessarily adopted by occupiers in self-defence.

8th. Because the forced and ungrateful system of so exhausting land is a bar to permanent advancement, and a loss equally great to the owners and the public.

9th. Because every measure which may render the occupation of land generally more beneficial to the tenant-farmer must be productive of proportionate benefit to the owner.

10th. Because a more extended application of capital in the cultivation of the soil would afford increased employment to the labouring classes.

11th. Because increase of labour would be accompanied by decrease of poor-rate, and consequently that land being less taxed would be more profitable.

12th. Because in some districts a custom exists of giving compensation for unexhausted improvements to tenants on the termination of their tenure, the beneficial effect of which is shown in the highly-cultivated state of the land in those districts.

13th. Because the making such a custom general instead of suffering its advantages to be partial only, would increase and confirm the mutual confidence that would exist between landlord and tenant, by doing away with all cause for doubt, distrust, or dispute.

14th. Because uncertainty must always impede energy; and justice made subservient to caprice is no justice at all, as it assumes the charity of might, rather than the claim of right.

15th. Because in letting every other description of property advantages and improvements are so recognised as to become a marketable investment; whereas land improvement is not recognised, and consequently is of no marketable value.

16th. Because the tenant-farmer being now exposed to foreign competition, justice demands that every impediment to the unfettered application of his capital and skill should be removed.—HENRY CORBET, Secretary.

Let every practical man test by his own experience the soundness of the reasons here offered; and then if (as it is believed he must be) convinced of the justice of the TENANT-RIGHT, let him at once take the only step now needed to secure it. Let him ask openly and firmly the support of his representatives for the principle of the TENANT-RIGHT Bill, and let the Farmers' Friends be known and num-

bered by this question, perhaps the greatest, and certainly the most directly affecting the tenant-farmers' interest. It would be impossible and far too wearisome to dilate upon all or even the leading discussions that have taken place during the last year, but if anyone present had not read them I would refer to the paper read by Mr. Caird before the Scottish Chamber of Agriculture, to one read by Mr. Latham in Cheshire, by Mr. Ruston in Lincolnshire, and to the report of an influential meeting in Gloucestershire, where it was unanimously agreed that the tenant-farmer's position at present was not such as to induce or render it prudent for him to invest more capital in the cultivation and improvement of his land. These are a few only of the meetings at which this important subject has been discussed, and a careful study of the reports will teach many useful lessons in reference to it. It has truly been said that Societies, Clubs, Chambers, &c., are not the mainstays to agricultural improvement, but it is the giving ample security for capital. They may through their discussions give greater publicity to these matters, they may make known the merits and demerits of certain systems; but the only way to bring into full operation this influence is to give absolute security for the capital which in this country one man spends upon another man's land. Capital would then flow to the soil from the tenantry, estates would be improved, and no one would benefit so much from their increased value as the landlord. It is vain to clog the intelligence and enterprise of the nation; but all who endeavour to remove useless (and what should be obsolete) customs and restrictions, particularly those in high position who have so much in their power, will be looked upon through life as great benefactors, and by posterity as leading stars whose light will be long ere it grows dim. The knowledge of the superior and advanced state of agriculture in the only portion of the kingdom where security to tenants' capital is general by a custom almost more binding than law, and the good understanding so often talked of is perhaps stronger than anywhere in England, should tend to remove the doubt so often expressed as to the desirability of this system becoming universal. I think all who will give this subject the fair and impartial consideration it deserves must conclude that owners, occupiers, and the public at large would all be benefited to an enormous extent, and the ties between the different classes materially strengthened. My experience has led me to the conclusion that tenants are seldom disturbed for *bad* farming; much oftener the *enterprising* man who steps out of the ordinary course. Many of us know instances where land has continued for years to go from bad to worse under the stringent cultivation clauses we are told are so necessary to protect the landlord, and that the tenant has been looked after almost with the care of a foster parent. The power landlords have of inflicting penalties for any departure from covenants while the occupier has no chance of reimbursement, except by special agreement, is a serious drawback to agriculture, prevents the employment of capital, and restricts the energy and industry of the occupiers of the soil. What has been done in Ireland in connection with this matter has been in the opinion of many too sweeping, and appears in some instances to lead to enormous claims being made for compensation for disturbance; but we must not ignore the price that has been paid for land under the new laws. It has been well said that the British farmer neither desires nor requires TENANT-RIGHT to the extent it has been carried in the sister-isle, although he is quite as deserving of it, and will continue his just claims until he has that liberty of action and free cultivation which will allow him to produce the most he can from the soil in the shape of food for the people, and such security for his capital that will enable him to obtain what he may have spent upon his farm and not had due time to recoup himself for. We are not here to-night for the purpose of advocating any changes that will tend to sever the various interests connected with the land; for I feel sure that the changes I advocate will, by placing the tenant-farmer in a just position, tend materially to strengthen the ties that should bind together landlord and occupier, and will, when carried out, remove a great injustice, and be very beneficial to the country at large: it will tend to assimilate and simplify the many varied customs and agreements to which the tenancy of land is now subject, and cause a large increase of food for the nation and security for capital invested in the cultivation of the soil, which I feel sure this Club will continue its endeavours to obtain. I will conclude by requesting those who take part in the discussion this evening to ask themselves one question: "Is it desirable to produce all we can at home for

the sustenance of our increasing population, and keep as many people as we can here, or to send the sinews of the nation abroad, and leave the remainder to depend largely on a foreign supply of food?" No one would more regret than myself any measure being advocated that would in the slightest degree interfere with the rights of property, but I firmly believe that greater freedom of cultivation and legalised security for capital invested in the improvement and occupation of land would tend more than anything else to cement and give a more genuine feeling of confidence between all classes interested in it. I feel that I have written more than I intended, and I fear I may have wearied you with the subject, but as I proceeded I found it possessed so many branches that it was impossible to prune it, and I now leave it with you for discussion.

Mr. H. NEILD (Manchester) said he would venture to affirm that the sentiments contained in Mr. Horley's able paper were a reflex of the farming mind of England. The question had been discussed in almost every county within the last three months, and everywhere it was agreed that the backward state of their productions in comparison with the requirements of the country, and he would add with reasonable expectations, was owing to a lack of confidence as regarded capital invested in the soil. The fact that such a paper as that just read was called for was a melancholy illustration of the manner in which the most important staple industry of the country had been, and continued to be, encumbered and fettered, and it was high time that a change was made. He was one of those who would approach that subject with care. He thought there should be no interference with that good understanding between the owner and the occupier, which was the key-note of agricultural progress; and he believed that if that good relationship to which he alluded were prevented by legal clogs and impediments, legislation would do more harm than good. On that question the country farmers looked to the London Farmers' Club to point out some line of action which would bring the farming mind to bear powerfully on the House of Commons. There was no time for delay; the question had been discussed enough, and what was now wanted was action. There was one omission in the paper which struck him very much. In connection with the want of freedom he could not help feeling surprised that the Malt-tax should have been continued so long (Cries of "Oh, oh"). There was more in the Malt-tax question than some gentlemen seemed disposed to admit. They would find that tax repealed by the manufacturing interests of the country (Cries of "Never"). He would not pursue that question, as it seemed distasteful; but he would remark that he had in his pocket a letter from a gentleman of very large territorial influence, who said he was prepared to advocate the rights of farmers in Parliament, but that farmers themselves did not seem to be agreed as to what was desirable.

Mr. C. S. READ, M.P., said the subject was most important at all times, but particularly at that juncture. It came under two distinct heads, and he was very glad that those two heads had been coupled together. They ought to go hand in hand, and not to be disconnected. He would accept the challenge thrown out by Mr. Horley, and say at once that he infinitely preferred safety to freedom (Hear, hear). When he heard it said at agricultural meetings that what the tenant-farmer wanted was scope for his ability rather than security for his property, he entirely dissented from that. He would say, "Be just before you are generous, and don't put the cart before the horse, as some people are trying to do" (Hear, hear). It must be remembered that whatever good chemistry had yet done to agriculture, was something like the advantage of civilisation to the Red Indian. Civilisation had taught the "noble savage"—and by that term he did not mean the right hon. member for the Tower Hamlets (laughter), but the real savage—the use of alcoholic drinks; and chemistry had taught the farmer not merely the use but also the abuse of ammoniacal manures, and that was what some persons meant by freedom of cultivation (laughter). However desirable freedom of cultivation might be on certain kinds of heavy lands, he believed that entire freedom on light lands, freedom given alike to the poor and the rich tenant-farmer, the capable and the incapable, would be one of the greatest afflictions that there could possibly befall agriculture (Hear, hear). In the case of the great and noble lease of the Earl of Leicester—for great and noble it was as a whole, though it was injured in some degree by some insignificant and stupid clauses—exception had been taken to the power which the landlord had reserved to himself of requiring the tenant at any time to put the land under the four-

course rotation. He (Mr. Read) maintained that where there was a lease of twenty-one years, a landlord who gave up that most important reservation would be almost mad. What an easy thing it would be for anybody who had a light-land farm to beggar it in two years! If the occupier were allowed to do as he pleased and to sell off the whole of the produce in the last years of his tenancy, he (Mr. Read) would be very sorry indeed to be the man who stepped into that tenant's shoes (Hear, hear). Therefore, he said, freedom of cultivation had two sides, and in a Club like that they must not ignore the existence of the landlord. But then, on the other hand, when he came to speak of compensation for unexhausted improvements he could not for the life of him understand what could be said against it. If freedom of cultivation were granted, the farmer ought to have security as well, otherwise he would be tempted by every possible means to beggar the farm. Let him have security, and then the farmer might have freedom as well; for they might rely upon it that in nine cases out of ten freedom would not be abused. This idea of freedom of cultivation had long pervaded the minds of a great many people, and he for one was very glad that when prizes had been offered by the Royal Agricultural Society for the best cultivated farms in certain counties, they were awarded not to those who had cropped in the wildest fashion, but to those who had as a rule adhered to the good old system of cultivation. He knew that the awards were at the time severely criticised, but he ventured to say that any one who had had experience in farming light land well knew that if a man departed from the good old system of the rotation of crops he might in the end beggar himself. He was very sorry indeed to learn, from the letter which had been read, that Sir Thomas Dyke Acland would not be present that evening, for he would have liked exceedingly to hear his opinion on that subject. Sir Thomas was a clever man, he was a highly gifted man, and no one could doubt that he as a landlord earnestly strove to do his duty. For thirty years, he told them, he had been thinking what the tenant's right to compensation should be, and he said he had at last arrived at the conclusion—that it was quite possible that under a system of compensation for unexhausted improvements, if a man had got a farm cheap for a long lease on account of its condition, at the end of the time the land would be revalued, and the landlord be called upon to make good to the tenant the whole difference between the increased value of the farm and its value at the commencement. Let them at once disabuse Sir Thomas Acland's mind, and the minds of a whole host of persons of much less importance, of such a notion as that (cheers). What they maintained was merely that a man ought to be paid for his unexhausted improvements. He held that in the case of all yearly tenancies, that should be made imperative by Act of Parliament, and that no landlord should be allowed to contract himself out of the Act unless he gave a long substantial lease—a lease of not less than 21 years. The Irish Land Act had now been in operation for some time, and what was the result as regarded that point? Why that wherever the landlord had the power of contracting himself out of the Act he invariably made use of it (Hear, hear). Moreover, in all the fresh-drawn Irish leases which he had seen—and copies of some had been sent to him within the last two or three weeks—there was a stipulation by which the landlord might contract himself out of the Act. Therefore he contended that in any legislation which might take place on that subject they must guard themselves in the case of yearly agreements—and he hoped that very soon there would be nothing less than a twelve-months' notice to quit—against allowing landlords to contract themselves out of liability for compensation on account of unexhausted improvements. In conclusion the hon. member said he believed that the absence of a right to compensation on the part of tenants had often been made an excuse as well as the cause for bad farming.

The Rev. E. SMYTHIES (Hathern Rectory, Loughborough) said he thought there was far more need of the farmer's hands being untied with regard to his mode of cultivation than of his obtaining compensation for unexhausted improvements. As regarded the latter, they wanted something like a definition of what were "unexhausted improvements." Who should say what was exhausted and what was not? That did not seem to him to be a matter for Legislative enactment. The question might be left for two valuers to settle; but there would always be great difference of opinion between the man who had in-

vested his capital and the man who was called upon to pay for it. He could not help thinking that in the discussion of such a question there might be something detrimental to agricultural interests. It rather implied that if a man had made improvements he must be about to leave his farm—that the improvements which he had effected must be submitted to a valuation; whereas they should, in his opinion, look to a state of things in which there would be the greatest security of tenure, and the man who had invested his capital in the cultivation of the soil would not be disturbed because the landlord wished, as was supposed, to take a paltry advantage of what he had done. He could not help thinking that there was one person who was not represented at that meeting, and who might benefit by that discussion: he meant the family lawyer. He had no hesitation in saying that nine-tenths of the difficulties which farmers experienced in cultivating the land arose from the musty old forms of the family lawyer (laughter, and Hear, hear). The landlord was, perhaps, an enlightened and intelligent man, a member of the Farmers' Club (laughter), a man who associated on friendly terms with his tenants and took an interest in all that concerned their welfare. But he could not let a single farm without seeing his family lawyer. When he made a suggestion to him with regard to the terms on which a farm was to be let, the lawyer replied: "Oh, that is quite unusual, it was never heard of." At last the landlord said: "Well, just draw up the lease somehow," and the result was that the lawyer drew the lease in his own way, and put in all the old covenants which had existed for a hundred years, many of which were now entirely obsolete, and ought to be for ever abolished (Hear). He was not speaking of an imaginary case, but of what frequently occurred. He had known instances in which a landlord, being desirous of acting in accordance with the spirit of the age with regard to the letting of his land, had suggested that certain old covenants which hampered and hindered good farming should not be introduced, and when he urged his objections he was met by the lawyer saying: "Well then, sir, you must manage it yourself, I can do nothing in it." He had known that to occur; and he thought that if they could pass a resolution which would have the effect of improving the family lawyer off the face of the earth they would be doing a vast deal of good (great laughter). If landlords and tenants could only agree together as to what was requisite the object would be accomplished. As regarded the question of tenure he might remark that he knew an instance in which the same family from father to son had occupied the same farm, under the same landlords, from father to son ever since the Conquest. He knew other cases in which tenants had farmed very badly, and in which, though the land was left in a very dilapidated and deteriorated state, the owner was unable to obtain a penny of compensation. While, therefore, they advocated the tenant's view let them not forget that there was another side to the question, and not omit to take into account the interest of the landlord. He hoped that on that subject the Farmers' Club would prove itself equal to the occasion, and be able to hold its own on what was essentially a farmers' question.

Mr. CLEMENT CADLE (Gloucester) said there were one or two things in Mr. Horley's paper in which he did not entirely concur. He (Mr. Cadle) thought that every year a tenant who was farming under a yearly agreement might be regarded as an outgoing tenant as well as incoming tenant, provided he were not under notice. Therefore, if a man farming in the usual way found it to his interest to have his land in the highest possible state of cultivation, the circumstances would not be altered in the event of another man succeeding him. He thought they looked at that question rather too much as a tenants' question. He regarded it as a landlords' question as well, and viewed in the broadest light, it was in reality more a landlords' than a tenants' question; for one effect of the present system was, that when a landlord naturally wanted a farm to look the best, that is, when a fresh tenant was applying for it, it looked at its worst. When a tenant knew that he was going to leave he naturally got out of the land all that he could; the consequence was that the landlord had it on his hands in a bad when he wanted it in its best state. He quite agreed with Mr. Read that the question of compensation was of greater importance than that of freedom of cultivation, because freedom of cultivation could only apply to heavy soils, and on light lands people could not be allowed to farm just as they pleased, for the land could be run out in a quarter the time heavy soils could, and it was in fact on this class of soils

that the greatest necessity existed for compensation, as was proved by a comparison of the agreements in force on light and heavy land districts.

Mr. G. M. ALLENDER (Bayswater) wished to mention something which might "point a moral" if it did not "adorn a tale," and was in harmony with what fell from Mr. Smythies respecting the family lawyer. A few years ago he held some land under agreement containing a clause which he did not like. He told his landlord that he should throw up the land because there was a stupid clause of which he did not approve. The landlord replied, "Oh, don't pay any attention to that, it was taken from a stupid old law-book, and will have no effect." Unfortunately he took the landlord's word, thinking that he was a gentleman (laughter), and went on with his cultivation; but the result was that he had to pay three or four thousand pounds (laughter).

Mr. T. B. DRING (Claxby, Spilsby) did not think any legislation could be as effectual as the owner and occupier entering into an agreement which would be suitable to the interests of both (Hear, hear). As regarded freedom of cultivation, it was often found that men had taken more land than they had capital to cultivate profitably. Freedom of cultivation might suit such persons very well. If a man of that kind were fortunate enough to hire a farm in good condition, and sold his turnips, his hay, his straw, and everything that he could grow, freedom of cultivation might suit him very well; but they should bear in mind that the landlord's capital was at stake as well as the tenant's, and that he wanted security no less than occupiers. Then as regarded another class of tenants, men who had sufficient capital and ability to stock farms, men who stocked farms in a suitable manner as regarded the character of the land, and whose capital was employed in a profitable manner both for themselves and the landlord, he would ask what security could be better than that of a good agreement. Supposing an outgoing tenant were allowed half his last year's cake, provided he had used the same amount for the last three or four years, and supposing he were allowed the cost of the last year's artificial manures on the same condition, there would, he thought, be justice in such an arrangement. On the other hand he held that when a farm had been beggared and impoverished the landlord had as much right to compensation as any tenant could have.

Mr. R. H. MASEN (Pendeford, Wolverhampton) said Mr. Dring maintained that all farmers wanted was a good agreement. So said he; but where was it to be found? (Hear, hear.) Mr. Dring was a Lincolnshire man, living on his own estate, and surrounded by men who occupied land under agreements which gave them good security. He entirely agreed with Mr. Cadle that that was more a landlords' than a tenants' question, inasmuch that the landlord would receive greater benefit than the tenant from a proper change in the condition of cultivation. Mr. Smythies and Mr. Read had expressed views of a rather opposite character on that subject. His experience was that when a question of that kind was discussed men rode a number of hobby-horses, and thus created great difficulty in arriving at any conclusion, and he believed it was partly owing to that cause that that question had not received the attention from the Legislature which, on account of its connection with the food of the country, it manifestly deserved. Under existing circumstances no landlord had a right to expect that his land would be cultivated in a satisfactory manner. It was contrary to human nature that a man who knew that he was about to leave his farm in two or three years, and would have no compensation when he quitted it, would cultivate land as he would do under other circumstances. Mr. Smythies seemed to suppose that if a man farmed well he would never be turned out. Experience did not justify that view. Moreover, life was uncertain, and a large number of landlords were very averse to having widows for their tenants. In his own locality death removed, in 1871, a farmer who had invested a large amount of capital in the land which he occupied. Last Lady-day the widow was called upon to give up the farm; and with it she gave up, without a corresponding compensation, a great deal of capital, which her husband, relying on the faith of his landlord, had expended on the farm. He asked whether it was not a matter of justice that a liberal compensation should be given in a case of that kind. Mr. Read alluded to the objections to freedom of cultivation. Now there were many ways of viewing that point. If he were a strong-land farmer, he would go to the agent and tell him that he had so many thousands which he was willing to invest in the land on

certain conditions as regarded cultivation, and if the agent were a practical man and not one of those old-fashioned London lawyers who it was so desirable to bring into that Club (laughter), they would no doubt be able to come to an agreement. He knew that injury was sometimes done to light land, but he could wish that his friend and neighbour Mr. Bass were there to discuss with them that point, as he would be able to tell them that brewers were obliged to go out of England for the finer kinds of barley, because it was impossible to obtain sufficient under a strict adherence to the four-course system of cropping. He should be very sorry to take a one-sided view of that question, or to join others in espousing the cause of tenant-farmers without due consideration for the interests of landlords, believing that a due consideration for the interests of both would most conduce to a satisfactory settlement of the question (Hear, hear).

Mr. JAMES HOWARD, M.P., said they had heard a great deal that evening about two classes, the landlords and the tenants; but he would remind the meeting that there was a third party that was interested in the settlement of that branch of the land question, he meant the public; some might say there was a fourth, namely, the labourers, though perhaps the labourers came fairly under the head of the general public. Some persons might say, "What have the public to do with the question of TENANT-RIGHT, it being entirely a question between landlord and tenant?" He replied that the public had a great deal to do with the question. The people had a right to go before the Legislature and say, "We are the consumers of the produce of the fields; we are the consumers of the flocks and herds of this kingdom; we are from 25 to 30 millions strong, and the landlords of this country are only 30,000, and perhaps, so far as this question is concerned, not more than one-third even of that number." He said that the people had a right to go before the Legislature and demand that laws which checked the development of the resources of the limited soil of this kingdom should be removed (Hear, hear). They had further a right to demand the enactment of laws which by encouraging the embarkation of capital and the employment of labour in the cultivation of the soil would feed them more abundantly. That question was a growing one, it grew from month to month, and from week to week, and he thought the farmers of England would act unwisely if they consented to conditions such as those which had been proposed by certain Chambers of Agriculture and certain public speakers (Hear, hear). He had read lately in the papers of great circulation a proposal that in the absence of an agreement or a lease a tenant should be entitled to compensation for unexhausted improvements, or for improvements made with the consent of the landlord. Now every one who took up the papers read by the working classes would see that they were beginning to feel how that question affected their interests; and when it became one of the leading questions of the day they would not consent to any half-measures. Such phrases as he referred to would be to them an unmeaning jargon. He maintained that, after the Legislature had passed, as he hoped it would do, a new law on the question of TENANT-RIGHT, it would be intolerable that any landlord who, through ignorance, or stupidity, or grasping, or through being unprincipled, or from any other cause, was opposed to improvement, should be in a position to say that he would not drain the broad acres, full of stagnant water, of which he was the reputed owner, or admit any claim for unexhausted improvements to a tenant who would drain them. He fully agreed with Mr. Read that any law which was passed must be so worded that no landlord would be able to contract himself out of it. Let it not be supposed, however, that he would be any party to the victimising of the landed interest of this country (Hear, hear). He believed that no class would be so much benefited by a well-considered law of TENANT-RIGHT as the landlords themselves (Hear, hear). So far from wishing to do anything to damage the interests of the landed proprietors, he was in favour of giving them greater security than they now possessed against any deterioration or dilapidation of their estates (Hear, hear), and he thought that object might be accomplished. At present the law was one-sided in that respect, and therefore unjust. The landlord could sue a tenant for dilapidation and deterioration; but the tenant had no corresponding advantage. With such a Court of Arbitration as Mr. Horley had suggested in his capital paper, the landlord would be far more secure than he was under the present system, because in cases of dilapidation and

deterioration he would have a far simpler and less expensive remedy. He (Mr. J. Howard) was clearly convinced that it would be no use troubling the Legislature with the question of TENANT-RIGHT if the conditions to be accepted by the tenant would still leave a landlord who was ignorant, or stupid, or grasping, or unprincipled in the same position as he was at present (Hear, hear). He felt certain that if the conditions which had been recently recommended by some Chambers of Agriculture were accepted by farmers there would be no improvement. He would remind the meeting that any law which might be passed for the amendment of TENANT-RIGHT in England was not wanted for such good and enlightened landlords as the Earl of Leicester and the Duke of Bedford, and others of this type for such a law would never affect those who seldom changed a tenant and never evicted a good one, but for that class of landlords which he had just referred to.

Mr. PELL, M.P., said, although that question was to be discussed by the Chamber of Agriculture on the following day, he would make a clean breast of it before the Farmers' Club. He thoroughly concurred in the regret expressed by Mr. Horley the other day before the Warwickshire Chamber of Agriculture, that landlords did not manifest a more lively interest in that question, by being present where it was discussed. A good deal had been said that evening about security for the tenant-farmer, but very little about security for the landlord. As a boy he used often to hear an old proverb, which was still true, that "One year's seed is seven years' weed," and unless the Farmers' Club proposed to secure the land from injury, arising from freedom in the cultivation of the soil, what was suggested was not likely to prove acceptable to the country. Not wishing to deal in mere generalities on that question, he would at once proceed to remark, that wherever they found the poorest land, they would also find the most liberal covenants. If they went into that part of Norfolk where liberal leases prevailed, or if they went into Lincolnshire, where there was a very advantageous custom, they would find the land poorish; and it was very natural that that should be the case. There was, however, no land in England so good that it could not be improved by cultivation, and he believed that one object of the Farmers' Club was to secure opportunities for the improvement even of good land. Now, how was that to be done? It might be done in two ways, by means of leases and by means of TENANT-RIGHT. With regard to leases, he was quite sure that there were plenty of practical men in that room who knew that leases could not be granted for a longer term than the grantor had an interest in the land, and that at once reduced the number of landlords in England who were able to grant leases to a very small minority. On that point there could be no dispute. Then, with regard to custom-right, that could only be established by the prevalence for a long term of years of a particular custom which both landlord and tenant had thus recognised as sound and proper. Men might fairly say, "We cannot wait 20 or 30 years for the establishment of a custom," and he did not wish to do so. Some protection, however, must be given, and he was sure no good farmer would wish to deny protection to the landlord or his children when it was determined to make alterations which would promote improved cultivation of the land. How was that to be given? Let them follow the old lines; let them see what had been done with respect to cottage buildings, drainage, and so on, objects which were quite as important as tillage, and for which landowners were now enabled by various Acts of Parliament to charge their estates as permanent improvements. Was it not desirable that in the case of entailed estates, estates which were settled by marriage, and estates which were subject to heavy mortgages, a farmer should be enabled to go to the ostensible owner and say, "Here is an opportunity for my spending my capital with advantage to the owner, with advantage to the public, and with advantage to the labourer," and that the person applied to should be enabled to treat with such an applicant? In such cases the representative of the estate should be enabled to agree as to what was the best kind of cultivation for the district; let some such persons as the Enclosure Commissioners be empowered to register the agreement, and let it become an established custom endorsed, as it would be, by the common sense of farmers. That was, he believed, the only way in which legislation could be usefully brought to bear on the matter. They had had a good deal of talk that evening with regard to the family lawyer. It was all very well to inveigh against that individual, but whenever there was a

marriage settlement to be drawn or a difficult question to be settled, or any money to be borrowed, recourse was had to the family lawyer. It would be of no use for farmers to attempt to run counter to the law, what they should aim at was to endeavour to reconcile the law as far as possible with the interests of agriculture and the spirit of the age.

Mr. S. SIDNEY observed that the complaint had been made that while a good deal had been said that evening about the interest of the farmer, very little had been heard about that of the landlord. That was not surprising, seeing that the farmer had only just found his voice, and the landlord had been doing as he pleased for hundreds of years. In his opinion landlords, with the assistance of the family lawyer of whom they had heard so much, were very well able to take care of themselves (Hear, hear). As regarded the revolutionary paper which had been read that evening, he should go away with a great deal of doubt in his mind as to whether the principles which it contained were accepted or not by that Club. Very few farmers had spoken, and some of those who had spoken had done so with "bated breath." He called the paper revolutionary. For what did Mr. Horley propose? In the first place he proposed that landlords, instead of being allowed to do what they liked with their own, should be compelled to make a certain agreement with their tenants; secondly, he proposed to introduce into this country a revolutionary system with regard to encumbered estates, so that persons who appeared to be the owners but were not in reality, would be obliged to relinquish the management in favour of some one who would make a better use of the land; and thirdly, he proposed that gentlemen who could now keep as much game as they pleased should be in some way restrained in that respect. If that were not revolutionary change he did not know what would be. Having been a member of that Club for more than twenty years, he must say that when he joined he never thought that he should live to see such things spoken there (laughter). He had not supposed that he would ever live to hear farmers contending that they should have proper security of tenure or compensation for unexhausted improvements; that a man who was over head and ears in debt should not be allowed to prevent the improvement of the land, or that landlords ought not to be allowed to keep as many hares and rabbits as they pleased at the expense of their tenants. But it was not by saying such things that the evils in question would be put down; nor was it by sending such county members as had been sent to Parliament. The sort of county member who had been sent hitherto was one who promised most solemnly to oppose with all his might what was quite inevitable, and to support with all his might what was quite impossible (laughter). He thought that gentlemen who took farms without having proper security were not entitled to much pity, as they generally knew how to take care of themselves what would be their position; but the public outside, who had been pointedly referred to by Mr. Howard, were in a different position. It was natural for gentlemen who possessed power not to like to part with it, but the great body of the people would insist on the land being well farmed, and would not allow a large portion of the country to be left uncultivated in order that certain people might have mischievous power and amusements. So long as farmers encouraged landlords in their present course by voting for people who came before them with clap-trap declarations, promising to oppose that which it was quite impossible to prevent, they would never get any security. There was their friend Mr. Clare Sewell Read, of whom he might say very safely that they were all proud of him as a farmers' representative in the House of Commons (cheers). With his fine presence, with his fine voice, and his happy and humorous way of putting things, Mr. Read was a most effective speaker, but he was bound in the fetters of country prejudices. He might apply to him the words which Goldsmith applied to that great man Edmund Burke—

Here lies our good Sewell, his genius is such
We scarcely can blame him or praise him too much;
Who, born for the universe, narrowed his mind,
And to party gave up what was meant for mankind.
In fact 'twas his fate, unemployed or in place, sir,
To eat mutton cold and cut blocks with a razor.

—(great laughter).

Mr. T. BROWN (Marham, Downham, Norfolk) said he concurred with Mr. James Howard that the public were deeply interested in this important question. He did not

accord with Mr. Howard in his estimate of the number of landowners, and he was pained by the tone of Mr. Howard's remarks; they would lead one to infer that Mr. Howard thought the interests of the public were antagonistic to those of the landowners, but in the latter portion of his remarks he expressed the opinion that landowners would be benefited by a fair system of compensation for unexhausted improvements, thereby showing that the interests of the landowners and the public were identical (Hear, hear). He was surprised to hear the Rev. Mr. Smythies taunt the author of the able paper which had been read, and subsequent speakers, with begging the question, by implying that tenant-farmers had to quit their occupations. Did that gentleman never read the advertisements of sales, and did he not know that they were all liable to have to leave their farms? (Hear, hear). He quite agreed with Mr. Read that compensation for unexhausted improvements might be termed the horse, and freedom of cultivation the cart, but he wished to see them go together, and he was sorry Mr. Read should deprecate freedom of cultivation. With respect to Lord Leicester's lease, he considered it quite right that under a lease of that kind the owner should have a right to interfere when the tenant was mismanaging the farm; but he also thought that a reason should be given for such interference, and that the question should be left to two competent persons called in for the purpose, instead of being decided by an arbitrary exercise of power on the part of the landlord (Hear, hear). He also agreed with Mr. Read that landlords should not be able to contract themselves out of an Act of Parliament for securing compensation for unexhausted improvements, but, differing from Mr. Read, thought compensation necessary under a lease as well as under a yearly tenancy.

Mr. J. HOWARD, M.P., disclaimed any such feeling attributed to him by Mr. Brown. He was not aware that his tone was at all offensive to the landed interest (Hear, hear), and certainly he never meant anything of the kind. He had simply stated the naked facts.

The Rev. E. SMYTHIES also disclaimed any intention to taunt Mr. Horley, he merely said that in the discussion which was going on it seemed to be implied that every farmer would leave at the end of his term.

Mr. C. M. CALDECOTT (Holbrook Grange, Rugby) had understood Mr. Brown to refer to that view of the matter.

Sir G. JENKINSON, M.P., said, as a landlord, he had no wish to shirk the responsibility of expressing the opinions which he entertained on that question. Mr. Howard had advocated legislation on the ground that some landlords were so stupid or obstinate that they ought to be restrained from exercising the powers which they now possessed. He agreed in that so far as the necessity existed, but that principle must be extended, and it must be recollected that the restrictions which were now applicable to cultivation were more applicable in the cases of bad tenants than of good ones. When they came to the question of legislation they ought to remember that if legislation was to be efficacious or to bear any good fruit it must not be one-sided. If it could be shown that legislation would make the tenant-farmer more free in his cultivation than he was at present; if it could be shown that legislation would smooth over difficulties which existed in different localities, and that a system of valuation might be established which would operate fairly alike as regarded the incoming tenant, the outgoing tenant, and the landlord, then, in God's name, let there be legislation; but in his experience in his own county (Gloucestershire) he had never known an instance in which an incoming tenant and an outgoing tenant had not succeeded in settling the question of compensation for unexhausted improvements, by calling in valuers. That was the custom in his county, and, he believed, in a great many others; but if it could be shown that it was not the custom in some counties, and that legislation was necessary to provide better security for the tenant-farmer, then he said let there be legislation, and he would be found ready in his place in Parliament to support it. He deprecated, however, any hasty legislation on that subject. They must first find men agreed with regard to the amount of unexhausted improvements in manure and feeding stuffs. One man would tell them that the effect of bone manure would last for one or two years, and another that it would last for seven years, and the same difference of opinion prevailed on many other points as to the value of manures, &c., and any attempts to legislate before men were agreed on such points would only make "confusion worse confounded." He was quite satisfied that by providing security

for the tenant-farmer they would at the same time promote the interest of the landlord. He had always held that their interests were entirely identical, and that what was good for the one was good for the other.

Mr. CHARLES HOWARD (Beds) said that they had heard a great deal that night about the family lawyer. In his opinion that person was exceedingly well represented by two speakers, who appeared to wish things to remain as they were a hundred years ago. He protested—and he believed that in doing so he was expressing the feeling of many gentlemen present—against that going forth as the feeling of the Farmers' Club. He regretted that those gentlemen did not reserve their opinions till the following day, as they were much more consonant to the views expressed in Chambers of Agriculture, by gentlemen who were satisfied with the farming of England as it stood and who were opposed to all improvement. He had risen without any preparation to make that protest, and he repeated that he hoped it would not be supposed that the gentlemen to whom he alluded expressed the feelings of the tenant-farmers of this country (Hear, hear).

Mr. HORLEY then replied. He observed, with regard to the remarks of Mr. Neild, that his wish was to confine himself particularly to the subject of that evening. Mr. Read said he preferred security to freedom. He quite agreed with Mr. Read that they ought to go together, but he could not think that any system which clogged enterprise and intelligence, and under which the land could not be half cultivated, should be maintained. No one would wish to withhold the power of obtaining compensation from the landlord for any exhaustion that might take place. Mr. Smythies should recollect that every one might have to leave a farm at some time, and no one could tell when it might happen. That gentleman spoke of the necessity of doing away with what ought to be obsolete customs and covenants. As regarded buildings, &c., the matter should be one of arrangement; but there were many things with respect to which it ought not to be necessary to obtain the consent of the landlord. Mr. Cadle alluded to the necessity of high farming. He (Mr. Horley) thought that high farming would generally prove more beneficial to landlords than to tenants, and he hoped it would not be supposed that the interests of landlords would not always receive the consideration they deserved at the hands of that Club. Mr. Dring alluded to certain agreements, but he should recollect that those agreements were not common in England generally, though they were so in the district where he lived. The keeping of a large amount of stock involved the employment of a large amount of capital, and it ought not to be disturbed at a short notice. The remark of Mr. Masfen showed the interests which landlords have in upholding to the highest extent the cultivation of the land to the end of the tenancy. Freedom would make landlords and agents more careful in the selection of tenants (Hear, hear). Mr. Howard touched on a very important point connected with that discussion. The interest of the public would, they might rely upon it, become stronger every day, and the sooner the question was settled satisfactorily the better (Hear, hear). That there was in some cases deterioration and dilapidation no one would deny, and the landlords' interest ought, of course, to be protected. Mr. Pell said that some of the best estates were the worse farmed. He (Mr. Horley) believed that the power of granting leases was much more extensively possessed than was generally thought. He could not follow Mr. Sidney through all his criticisms; but on one point he quite agreed with him, namely, that farmers wanted more direct representation in Parliament, and he would add, in Counties also. He was very much surprised to hear from Sir George Jenkinson that compensation for unexhausted improvements was so common already (laughter). In conclusion, Mr. Horley disclaimed any wish for legislation in favour of one class at the expense of another, observing that he would be the last person in the world to advocate anything of that kind (Hear, hear).

On the motion of Mr. T. Congreve, a vote of thanks was then given to Mr. Horley for his paper, and a similar complement was paid to the chairman.

At a meeting of the Committee on Monday, a special committee of the following members was appointed to consider and report on Mr. James Howard's Tenant-Right Bill, which, "backed" by Mr. Sewell Read, will be introduced early in next Session: The Chairman, Mr. H. Cheffins (Essex), Mr. C. Howard (Beds), Mr. T. Horley (Warwickshire), Mr. R. Leeds

(Norfolk), Mr. E. Little (Wilts), Mr. R. J. Newton (Oxon), Mr. G. Smythies (Herefordshire), Mr. J. Thompson (Gloucestershire), Mr. H. Trethewy (Beds), with Mr. J. Howard, M.P., and Mr. C. S. Read, M.P.

At the same meeting Mr. C. S. Read gave the necessary notice that at the next meeting of the Committee he should move that a subscription of £20 be forwarded by the Club to

the Royal Agricultural Society of England towards the payment of the expenses incurred at the Leeds Cattle Trial, and in expression of approval of the course taken by the Society.

Mr. John Thompson, of Badminton, has been elected Chairman of the Farmers' Club for 1873.

PUBLIC OPINION AND THE CENTRAL CHAMBER OF AGRICULTURE.

It has ever and anon been a duty for some time past to call attention to the professions and practices of the Central Chamber of Agriculture, and to show how a curious lack of administrative ability, a pitiful trick of asking for money, and a constant habit of shirking or "putting out" its work, have been amongst the more prominent features of this organization. On the part of the farmers it has been further necessary to point out how the thing has gradually grown into a mere cat's-paw of the landlords, where the actual interests of Agriculture are interpreted after the reading of certain members of a certain class. *The Mark Lane Express* long stood alone here. It was only "fault-finding"—"prejudice"—"a mistake on the part of the management," and so forth; and at this moment there is scarcely an independent Agricultural journal in the kingdom but has come to see the matter in the same light. For some weeks past *Bell's Weekly Messenger* has devoted column on column of its pages to the exposure of a job, said to be attempted under cover of the Central Chamber. Again and again has *The Agricultural Gazette* dwelt on the very palpable fact that the chief care of the Chamber is the landlord, to the neglect of every other call: "We have more than once pointed out that the Chamber of Agriculture has hitherto been less trustworthy than the old Farmers' Club as the mouth-piece of the tenant-farmer"—"already we observe a significant distinction between the Chamber and the Club which is quite in keeping with all we have ever said of the difference between the two." This was published a week since, and on Wednesday last, speaking of the Central Chamber's business for to-morrow, *The North British Agriculturist* says: "The resolutions appear to us of a most puerile character, and calculated to mislead the tenant-farmers of England. If we are right in this no countenance should be given to them;" and *The Fortnightly Review*, in an article which Colonel Brise referred to in Essex, on Tuesday, as "an able paper," characterizes the resolutions of the Central Chamber as "beneath contempt." We have maintained over and over again that the Central Chamber has shirked its work; that it lost its first great opportunity, and passed over the diseases of cattle when before Parliament to another Association. We have maintained that it lost its best opportunity when there was a surplus, and has thoroughly shelved the Malt-tax; and we have shown how it has been chiefly active in begging for money to get the taxes off the land. At the meeting of the Suffolk Chamber of Agriculture, on Tuesday last, Mr. H. Biddell asked why, "when they had a Central Chamber of Agriculture, it should depute one part of its labour to the Home Cattle Defence Association, another to the Local Taxation Committee, a third, such as the repeal of the Malt-tax, to another Association." There was, we read, some loud applause at this; and Mr. Everett "regretted that the Central Chamber remitted its work in this matter;" and Mr. Corrance said "the Central Chamber had not done the work which had been done by another Association;" a remarkable statement, which does not go far to help a lame dog over a stile. Thus we learn from Mr. Biddell,

who is a pretty regular attendant at the Central meetings, how there is one association to look after the Diseases of Stock, another to see to the revision of Local Taxation; and a third to repeal the Malt-tax; but what in the world then has the Central Chamber of Agriculture to do beyond, of course, attempting "to mislead the farmers" with its resolutions on Tenant-Right, which are "beneath contempt"?

Mr. Goode in *Bell's Weekly Messenger* endeavors in some degree to answer such a question by narrating at great length how some members of the Council and other officials have, "with a view to a profit, a private enterprise" of their own to attend to, which is hung on to the Central Chamber. This, however, does not appear to have been a very original notion, as certainly not altogether without precedent, for Dr. Hyde Clarke writes in this wise: "I did have a fight with the Anthropological Society about the *jobbing* of the *Anthropological Review*, and that they attempted to expel me. The result was a committee of inquiry, and the retirement of several hundred members. I regret, with reference to publications, I have no copies. The chief matter was published in the *Athenæum*." But Mr. Goode is, it is said, a disappointed man; that is, so far as we can see, he altogether refused to have anything to do with "the Organ," though his contributions were specially solicited. It is only fair, however, to say that in this amusing correspondence, as fostered by our contemporary, the secretary of the Central Chamber reminds another of his adversaries that "Chambers of Agriculture are doing some earnest work upon Tenant-Right, Game, Cattle Disease, and Local Taxation." There is some nice discrimination here; as we have been ever ready to show how much good may be done by the local Chambers which *act* for themselves. But what earnest work is the Central Chamber doing over Cattle Disease, Local Taxation, Game, and the Malt-tax? According to Mr. Biddell, none whatever. Like the show footman, the Central Chamber puts its work out while it disports itself in Salisbury-square.

This brings us to another point. The exigencies of commerce occasionally require that a gentleman who may expect answers in postage stamps or marketable commodities should have his letters directed say, to *Number One*, of course, *UTOPIA TERRACE*, *INNUBIUS BUILDINGS*. On inquiries, however, it often happens that A. B. C. don't live there, "he don't have no rooms here," but "he comes sometimes, or he sends for his letters, or we sends them to him," his own address being "round the corner." Now, this may be all very well or all very ill for a gentleman of limited means and limited companies; but is it worthy of imitation by a great national body like the Central Chamber of Agriculture? And yet every letter or paper is addressed from the Central Chamber of Agriculture, Salisbury Hotel, Salisbury Square, London, where the Central Chamber, like A. B. C., "never had no rooms," and nothing more than a receiving box, while A. B. C. took his "away in a bag." And yet the Council by continuing this address compel their officials to lead off every communication they may have to send out with a sham and deception.

Says an Essex farmer "like Mr. Good, I am dissatisfied with the constitution of the Central Chamber;" and we might easily multiply opinions of this kind, for there is the taint of suspicion about the whole thing, even to the payment of some of the second-class fares; and it only requires the adoption of those do-nothing resolutions to bring matters to a climax. According to resolution (a): "The outgoing tenant should be entitled to compensation from the landlord or incoming tenant for the unexhausted value of his improvements—subject to previous consent of the owner in the case of buildings, drainage, reclamation, and other improvements of a permanent character." *Should*, mark you, while by the law of

the land—Victoria 14 and 15, "Buildings and machinery erected by a tenant, with the *consent* of his landlord, become the property of the tenant at the expiration of the lease, and he may remove them, subject to the first offer of them being made to the landlord." But this is too much. We can picture the tenant-farmer with his legs apart, and his eyes wide open (at last) exclaiming after the manner of Dominic Sampson, "PRODIGIOUS! These fellows are going too fast, they'll bring on a revolution!" In the annals of Agriculture there is probably no precedent for a proceeding which so thoroughly stultifies itself.

TENANT-RIGHT "BY LAW."

Some few of the local Chambers of Agriculture occupy just at present a rather absurd and humiliating position. They took the Central Chamber's Tenant-Right resolutions for "gospel," as the old huntsman said when he heard the sporting parson's *Tally-ho!* Amiable people in the country were prone accordingly to adopt the paper sent out as the proper thing to do. The West Riding Chamber dutifully confirmed the resolutions of the Central Chamber; the Cheshire Chamber was on the point of doing so, but for the resolute interference of Mr. Latham, who saved the credit of the county by a rider. The Gloucestershire Chamber followed in echo of the orders sent forth, and the Herefordshire Chamber accepted these without material alteration; while Mr. Watson, the leading authority at the Central Devon Chamber was thoroughly satisfied with the resolutions of the London Central Chamber. Was he! He stands at this moment as probably the only man in the country who would dare to say so much. The resolutions of the Central Chamber, as scattered abroad in June last, could never have been intended to mean anything whatever; for at the November meeting they were treated—and there is no other phrase for it—with ineffable contempt. Scarcely anyone ever spoke to them, as they were seen to shirk the vital question, and at most to uphold meretricious—claims already recognised by the legislature, or rights which would ever depend upon the vigilance of the tenant himself, who could not enforce them unless he had an understanding to that effect with his landlord.

What can be the object of obtaining the opinions of the local Chambers in this way? Naturally, as one would suppose, that they might be arranged in a clear report for presentation at the central meeting. Nothing of the kind appears to have been done, as little or nothing is ever reported on here but local taxation; and so the unfortunate locals who have committed themselves, or the other Chambers which have gone for a stronger line, are dropped in the coolest possible style after being so pointedly invited to take the question up. It is true their representatives could join in the discussion, which on Tuesday was almost entirely devoted to the composition of another resolution, in which *entitled by law* is at length admitted. It would, however, surely be better for the future that the country Chambers be left to put their own opinions into form.

The excellent paper read by Mr. Horley at the Farmers' Club on the previous evening will speak for itself, as if anything it was only too comprehensive and exhaustive. But there can be no question that the *general* discussion which followed was unworthy of the opening address, and as Mr. Charles Howard energetically protested, some of the speeches delivered must not be identified with the Club, but should have been the rather re-

served, as one honourable gentleman appeared desirous of doing, for the Chamber meeting. There they would have figured consistently enough side by side with the worthy man who "doubted if the subject was ripe for legislation"! and his fellow who "could not understand how there could be any unrecovered capital at the end of fifty years"! If a man be farming thoroughly there must always be unrecovered capital, or unexhausted capital, in the soil.

The Farmers' Club did not pass any resolution, but it took a far more efficient course of action. This was the appointment of a special committee to consider and report on the Bill about to be introduced by Mr. James Howard and Mr. Sewell Read. Many years since the Farmers' Club did precisely the same thing over Mr. Pusey's Tenant-Right Bill, examining and speaking to every clause. The committee will be found to consist of a nicely balanced number of farmers and land-agents; and any clear straight-forward report from such a body must necessarily be of far more value than any round-about "hedging" manifesto like that the Chamber of Agriculture at length adopted. The Bill will really have something at the back of it.

Salisbury Square was by no means crowded with members of Parliament on Tuesday morning. The landlord interest was represented by Sir John Pakington, Sir Michael Beach, Sir George Jenkinson, Sir Massey Lopes, and Mr. Pell, and there does not appear to have been anything very determined in the front they offered. Mr. Sewell Read, as usual, represented the farmers, and Mr. W. Fowler the public interest; but there was none of that jostling of honourable gentlemen one against the other, as when a local taxation debate is on the card. The chief opponents of Mr. Pusey's Bill alike in the House and in Committee were the country gentlemen, and they will be so still. It would be absurd to attempt to gloss over a fact which is but too palpable, and we warn the friends of the measure of that they may expect to encounter. The country, the public of all other classes is ripe for legislation; but unless the public's members are looked up, the question will be shelved again for many a long day. The resolution of the Central Chamber declares that the farmers' capital must be secured by law; and, if the Chamber be in earnest, if it really means what it says, let a letter be sent to every member of Parliament who is also a member of any Chamber directly asking if he will give his support to this principle when it comes before the House? If the Central Chamber—"established to look to matters before Parliament"—cannot take this step, then its resolution is an empty sound. If any example be required it has just been offered by the Scottish Chamber of Agriculture, when the members resolved "to press the subject of land tenure on their Parliamentary representatives."

THE AGRICULTURE OF SYRIA.

One of the most fertile and densely peopled countries was Syria, before the Mohammedan conquest, but now it has become a parched and uncultivated soil, with scarcely any population, except in the territory of the Druses and the Maronites. At the time of the Romans the number, extent, and splendour of its cities were not equalled in any other part of that empire; and although dwarfed in size and crumbling to decay, Jerusalem and Damascus have still remained from the commencement of the history of the human race to the present day. The prospect of a revival lies in the better government of the Turks under the influence of European opinions, the protection of the resident Consuls, the construction of the Euphrates Valley railway to the East, and the consequent healthy flow of traffic that must pass where bygone associations can never fail to create a powerful attraction. The peculiar physical features of the country, combining within a comparatively small limit low lands, plateaux, mountains, and valleys, presenting every variety of climate, from the almost tropical temperature of the coast line, to the temperate clime of the table lands, admirably adapt it for the cultivation of most of the products of the earth. Its natural productions should be enormous; but the political and administrative state of the land has so far militated against any serious development of what constitutes in Syria the sole source from which the prosperity of the people springs.

The produce of the rich vast plains, such as those of Hamah, Hauran, Beka, and Samaria, little more than suffice at present, under favourable circumstances, for the support of the scanty inhabitants. Large tracts of great fertility lie waste and depopulated, but presenting everywhere traces of former prosperity. Agricultural knowledge is everywhere in a backward state. The old Roman plough, drawn by bullocks is employed, while the rest of the tiller's implements owe their origin to still remoter ages. The "feddan" or admeasurement of land in Syria, is of various dimensions. It is popularly held to be that quantity capable of being ploughed by a pair of oxen throughout the year. It varies in extent, according to the fertility of the soil, and the nature of the land. In hilly districts, where the soil is light, an average pair of oxen may keep under cultivation from 36 to 40 acres; while, in the plains, from 28 to 36 acres is the ordinary size. The quantity of seed sown varies also according to the nature of the ground, and its richness, averaging from 25 to 60 kilog per feddan. The seed is sown broadcast. The majority of portions of land are 1 feddan only. The next most numerous are 2½, and few are found of more than 6 or 7. The yield per feddan may be calculated at a very rough estimate at about 200 bushels of wheat, 50 of barley, 75 of millet, and 40 of sesame. The proportion in which the cultivated lands are devoted to the various kinds of crops differ according to the locality; in the fertile districts of Acre and Nablous the proportion devoted in a five years' average was for wheat 40 per cent., barley 9, millet 7, sesame 13, and the remainder of the cropping was made up of cotton, pulse, tobacco, water-melons, vines, fig-trees, and olive-trees. Crops are classed under two heads, viz., the summer and winter crop. The summer yield consists of millet, Indian corn, tobacco, cotton, and sesame; and the winter of wheat, barley, lentils, beans, chick peas, and vegetables. Rotation of crops is confined to the change in alternate years of the species of produce cultivated: thus, the land which this year is devoted to cotton will next year be planted with wheat, and so on. Manure is not used, and indeed is seldom obtainable, save in pastoral districts, where,

however, the unsettled state of the country reduces cultivation to narrow limits. Rain seldom falls from the end of April till the beginning of October, and clouds are rare. The whole country is thus parched: vegetation, except where streams of water flow, is extinguished, and the air during the long summer day becomes so hot and dry as to render out-door occupations dangerous. The autumnal rains commence about the latter end of October or the beginning of November. January and February are the coldest months; but frost is seldom seen, and the cold is not severe.

In ordinary years, Syria produces enough from the fertile plains of the Hauran, Bekeia, Homs, Hamah, Damascus, Gaza, &c., for her own consumption, besides leaving a small surplus for exportation. In 1870, however, the excessive drought ruined the crops, and necessitated importation to provide for local wants. One of the consequences of the bad harvest of that year, was to curtail the breadth of sowing for 1871, by reason of the high price of seed. In the interior, where the cost of transport in a country without roads enormously enhances the price of grain, wheat rose to an equivalent of 104s. per qr., entailing great misery upon the peasantry. Large quantities were distributed by the government for seed purposes against its return at harvest-time, but a considerable portion was consumed for food, which made a serious diminution in the area sown. For this reason, and also that of unpropitious weather, the wheat crop of 1871 fell generally short of the average. In December last, when hope was nearly exhausted, and a recurrence of the misery of previous years seemed inevitable, copious rains fell, far surpassing the ordinary average. An abundant harvest throughout the land might therefore be looked for, with its concomitant blessings of cheap food and increased prosperity generally. Since the outbreak of the murrain in Egypt a few years since, that country has drawn largely upon Syria for animal food, and the exportation of cattle has been greatly developed. Apart from the large numbers of bullocks, sheep, and goats which are driven down from Eastern Asia Minor to the Syrian ports for shipment to Egypt, and which form part of the cargo of nearly every downward-bound steamer, the Bedouin tribes have lately opened their eyes to the source of profit presented to them by the Egyptian market, and are devoting themselves to the rearing of cattle, sheep, horses, and mules. The rich pasturages of the border lands frequented by them, and especially the district lying between Damascus and Jerusalem, offer peculiar advantages to such enterprise.

The difficulties encountered by industry and agriculture, leaving aside the exceptional circumstances of the last two or three years, are very great. In Syria, as in other parts of Asiatic Turkey, especially in Asia Minor, the conscription exercises its exhausting effects chiefly on the agricultural element, denuding some of the rural districts to such an extent that there are hardly hands enough left to till the soil under cultivation. The facilities which the venality of subordinate officials offer for the evasion of the dreaded service to those who are liable to be drawn are largely availed of by the effeminate and apparently well-conditioned dwellers of the towns, while the young and robust peasant, the sinew of the country, unable, out of his miserable earnings, either to pay the commutation fee or satisfy the avarice of the recruiting officer, is carried off. Such is the aversion entertained to service in the regular army, that ruinous sacrifices are made to pay the exemption fee. The value of the growing crops is forestalled, often at 50 per cent. loss, or

money borrowed from the usurer at equally exorbitant rates. Many flourishing villages have thus been brought to ruin in a single year; and when it is considered that the conscription takes place annually, the amount of suffering to the peasant and injury to the country cannot be estimated too largely. In face, too, of the system of taxation, vexations, and abuses to which the cultivator is exposed, no capital is laid out in agricultural enterprise. The obligation to pay fixed tithes upon his produce, whether the yield is good or bad, taxation unfairly assessed, and illegal exactions of all who possess authority over him, from the tithe-gatherer and tax-collector to the rural police, to say nothing of the usurer, from whose clutches he is seldom free—all these circumstances combine to prevent his reaping beyond a miserable pittance for his toil. Ages of misrule and oppression have stamped upon the mind of the Syrian fellah the belief that change in anything that concerns him must be resisted, as it can only conceal some covert scheme for adding to the exactions already wrung out of him. This deep-rooted belief will ever militate most strongly against any regenerative schemes that may be proposed by those who have

the interest of the country at heart, and will take years to eradicate even under the most favourable circumstances. What is imperatively called for is, the establishment of an institution of the nature of an agricultural bank, which would make advances to the peasantry at moderate rates of interest, and so rescue them from the extortion and rapacity of the usurer. Such an establishment would not fail to be remunerative to the capitalist, while it would prove of the greatest benefit both to agriculture and to the revenues of the country.

In spite of these obstacles it is surprising that agriculture has nevertheless extended, and commercial transactions have increased, with every probability of more wealth than might at first glance be presumed to exist. The capabilities of Syria for agriculture and manufactures are very great, and were fiscal exactions checked and regulated, could the peasant get proper protection in his labour, and were the aptitude which the country and its people for the development of industry fairly called into action, the whole face of affairs would soon be changed.

OUR COMMERCIAL "RELATIONS."

Brevity may or may not be still the soul of wit, but it is certainly the soul of business. People speak through telegrams and write letters on post-cards. The practical philosophy of Dotheboy's Hall is a lesson now taught in all our schools. Mr. Stanley is simply told to go and find Livingstone, and he goes and finds him; the histories of our great battles are written on the field, and the winner of the Derby is known in Calcutta before the race is run. Sharp and smart is the very adage of the age. The complete letter-writer is simply a nuisance, and the Grandisonian style as obsolete as old Homer's rolling epithets. It is vulgar to "present your compliments;" and the worthy man who would wind up his epistle by stating that whatever might happen he had yet the happiness to feel that he had the honour to be your most obedient humble servant might be locked up in a lunatic asylum forthwith, if he were only worth the trouble and expense. Even officials who pen long despatches are apt to be regarded as humbugs, and we are coming again to the *Veni, vidi, vici* of Cæsar, Nelson's "Gazette of his own," or the strictly commercial communication of the old admiral who never got beyond his "items" of so many ships taken, as "named in margin."

How changed, indeed, is the tone of our commercial relations and transactions! It was the boast of the good old citizen that for forty years he never slept out of sight of St. Paul's excepting on the night of his marriage when he went to Margate; whereas his son runs over to Spain to judge for himself of the vintage, or has taken a trip to America with a view to extending their connexion in New York. He will make and break two or three fortunes against his father's savings, will wire an order to buy up all the chicory in the world, and take the wool clip of a colony. The house's traveller drove his tandem on a three months' tour through the West of England, and drank his bottle of port in peace every day of his life; the more modern "bagman" is at Birmingham on Tuesday, in Manchester on Wednesday, at Liverpool on Friday, and back again by Saturday. He sleeps in the Express, dines in the refreshment-room, and writes his letters, at so much a word, on the little desk by the station-window. People now-a-days "play at" flying carrier-pigeons, just as they drive fast coaches "for fun," utterly eclipsed as all such means of communication are for the purposes of actual business,

The extra labours of foreign post might threaten to become a tradition, for you may deal and deal again with half the world between breakfast and dinner.

The following are copies of telegrams of Monday last: Received Oct. 21, 7.15 p.m. Dated Adelaide, Oct. 21, 9.12 a.m. "From the Mayor of Adelaide, South Australia, to the Lord Mayor of London, via Falmouth: The Mayor of Adelaide congratulates the Right Honourable the Lord Mayor of London on the opening of telegraphic communication between Australia and Great Britain, and trusts the communications so auspiciously begun may still further cement those feelings of loyalty and attachment to her Majesty's throne and person which characterises the whole of the Australian provinces of the British Empire. God save the Queen."—"Oct. 21. From the Lord Mayor of London to the Mayor of Adelaide, via Falmouth: The Lord Mayor of London is much gratified by the reception of the telegram from the Mayor of Adelaide, and fully reciprocates the very kind expressions in his most agreeable communication." The importance of such a fact as is here embodied on the minutes of the Court of Aldermen can hardly be over-rated, the more especially when considering its effects on commerce of all kinds. We have long commanded or reciprocated the intelligence of other distant countries, and men now come home from India for one month's holidays. But Australia hitherto has been comparatively untangible, and we have received our news as we do her meats, only when carefully potted. Now, however, we shall hear in a day of any great gold discovery, of any mortality on the sheep runs, of the growth of the wheat, and the quality of the vines. In return, the colonial grower will hear, as certainly and as quickly as we ourselves can ascertain, of all we shall want and what he should send.

And here, naturally, is the moral of the whole business; as the more intelligence or the more directly it travels the more will cheaper States be encouraged to enter into competition with the old country. It was just about this time last year, if we remember aright, that Mr. Mechi recommended the English farmer to break up his grass lands and go in for growing wheat; and during this past autumn one of those agricultural authorities who, like the sea-serpent, periodically unwinds him-

self to appear in *The Times*, was suffered to say emphatically, "Depend upon it! a decreasing English wheat crop will not always be met by cheap foreign supplies." Against this it must be remembered that wheat is yet grown year after year on virgin soils, with scarcely any attempt at cultivation, but so long as it will yield and so long as we want it a crop will be taken. It is, again, quite impossible to say to what extent cultivation might be improved or fresh lands brought into use so soon as wheat was reported to be at a certain price in England. And these reports are now almost instantaneous. Our own corn trade article is sent all over the country, we had almost said all over the world, so soon as a copy is off the press, and before perhaps a paper is posted. And the inevitable result is that wheat when it has reached to a certain price cannot remain at a certain price. So surely as we exhaust the resources of France or the continents of Europe and America, as surely shall we be "met by other foreign supplies." It will be time for the home producer to consider whether these can be brought in at dear or cheap rates, although one great effect must be on his own prices. Of course cargoes from Australia will be slow of delivery, and competition cannot be so direct as with other countries, but nevertheless nothing will tend so much to establish a trade as the command of continual and ready advices of the terms upon which it can be conducted. Melbourne, October 27: *breadstuffs are advancing.*

TENANT-RIGHT.

At a meeting of the Devon and Cornwall Chamber of Agriculture at Tavistock, the subject was "Compensation for Unexhausted Improvements," introduced by Mr. Clark, barrister of the Western Circuit. The chair was taken by Mr. G. W. Soltau.

Mr. CLARK explained that the question before them was whether there should be legislative interference in the matter of compensation for unexhausted improvements. In his opinion without legislative interference very little would be done. In the two counties of Devon and Cornwall no custom existed on this matter, and unless there was a provision in the lease of tenancy the tenant would now have no means of obtaining a return for the capital he had laid out. Undoubtedly custom did prevail in some counties—for instance, Lincolnshire—where the custom had the power of law, and had been enforced. Tenant-right in Lincolnshire undoubtedly worked well. He knew well that tenant-right in England was not the same as it was in Ireland, nor did it make the same demands in this country as it did in Ireland. What was demanded in England was that the tenant should receive compensation for his unexhausted improvements—in fact, security for his capital. Legislation was necessary to secure this where there was no provision to the effect or no custom prevailing. It took a long time for custom to ripen, so as to become law. All that he asked of that meeting was to affirm the principle. Matters of detail would come after, and be arranged to suit the various localities.

Sir MASSEY LOPES did not hesitate to say unreservedly that there was an injustice in the present state of things. There was good policy and good reason in tenants having some compensation for any unexhausted improvements in the land. If they could not establish a custom let them try what legislation could do. But he was not going to commit himself to legislative enactment before he knew what it was likely to be. He thought the matter could be settled by a simple contract between landlord and tenant. He was not fond of having the Legislature stepping in on every question.

Mr. PRATT strongly approved of leases to tenants, and condemned the practice of not giving compensation, the result of that pernicious system being to cause farmers during the last part of their term to keep their land down to half producing power.

Mr. HORSWELL moved—That it is the opinion of this meeting, with the view to encourage the full use of tenants' capital in the occupation of land, which is so essential to the proper

development of the same, that the outgoing tenant should be entitled by a legislative enactment to compensation from the landlord or incoming tenant for the value of his unspent manures and improvements, such value to be ascertained by valuation in the usual way.

The motion having been seconded by Mr. Sparrow,

Mr. PERRY pointed out the difficulties which would attend the definition of the word improvements, and Mr. SNEY insisted upon the necessity of something being done to prevent estates being neglected during the last years of a term.

Mr. HENRY LOPES, M.P., said there were many different modes for getting the compensation. It might be done by means of a lease, but that would only affect leaseholders. It might be done by custom, which had the same force as an Act of Parliament, but it was necessary in order to make that custom good evidence that it should have existed from time immemorial. It might be that landlords and tenants could meet and agree upon a reasonable custom and have it confirmed by Parliament, but that custom could only be binding on those who agreed to it.

Sir MASSEY LOPES said it could not be permitted that tenants should make permanent improvements on an estate without the landlord's consent, and then call on the landlord to pay for such improvements.

Mr. HORSWELL accepted Mr. Lopes's definition of the word "improvements" for which the tenant was entitled to compensation, and this being embodied with the motion, it was unanimously carried.

Votes of thanks to Mr. Clark and to the Chairman closed the proceedings.

At a meeting of the Shropshire Chamber of Agriculture, at Shrewsbury, Mr. Bowen Jones who was in the chair, moved the following resolution, seconded by Sir Baldwin Leighton: "That this Chamber considers it necessary for the proper security of the tenant's capital in husbandry that the outgoing tenant should be entitled by legislative enactment to compensation from the landlord or incoming tenant for the value of his unexhausted improvements, such value to be ascertained by valuation in the usual way; also, that the landlord should be entitled to compensation from out-going tenants for dilapidations and deteriorations, the amount to be determined by valuation." Mr. Bather moved an amendment against legislative enactment, which was seconded by Mr. Jasper More. The original resolution was carried by a large majority, only ten voting for the amendment. Mr. Thomas Horton proposed, and Mr. Mansell seconded, the following resolution, which was carried unanimously: "That a committee, composed of an equal number of landowners or land-agents and of tenant-farmers, be selected to consider the conditions of the tenure of land in this county, and to report upon the same to a future meeting; also to offer suggestions as to the amounts of allowances that an off-going tenant should be entitled to, and the deteriorations that a landowner should be enabled to establish in the case of deficient husbandry." [We are compelled to reserve our report.]

At a meeting of the Herefordshire Chamber of Agriculture, the resolutions sent out by the Central Chamber were unanimously adopted, the words "or incoming tenant" being omitted in the first.

THE SCOTTISH CHAMBER OF AGRICULTURE.—

At a meeting in Aberdeen, the following resolutions were passed: 1. That the meeting approve of the action of the Chamber of Agriculture in discussing and calling attention to the Land Tenancy laws. 2. That in the opinion of the members of this county the Chamber ought to resolve on the measures which altered circumstances now make imperative in the interests of proprietors, tenants, and the public generally, and press these measures on their Parliamentary representatives.

ANOTHER MODEL AGREEMENT.—A preliminary meeting was called in Norwich, to make arrangements for preparing another agreement, when Lord Leicester will again confer with the agriculturists of the county.

TENANT-RIGHT.

At the meeting of the Gloucester Chamber of Agriculture Mr. C. CADLE read the following paper:

Perhaps the most popular error connected with this subject is the notion that Tenants' Right means Landlords' Wrong, while it is nothing of the sort. Tenants' Right is an unfortunate word to have been used in connection with the subject—Compensation for Unexhausted Improvements is far better, the meaning being the same; and I will endeavour to show that it is not a question affecting the tenant so much as it affects the landlord. Without it the tenant, whether he has a lease or an agreement, naturally tries to get all he can out of the land before he leaves; and the result is, that of all times when the landlord wants his farm to look the best (that is, when he has to let it to a fresh tenant) he, under existing circumstances generally has it looking its worst. The landlord wants to have the land farmed well up to the last, it is therefore undoubtedly to his interest to sanction compensation for unexhausted improvement, especially as it costs him nothing—for, practically, the incoming tenant pays for it—and my experience tells me that it is only for want of explanation that landlords do not generally adopt it. Every one with whom I have gone into the subject has readily agreed to it, and I have adopted my agreement for several estates and have found the system work very well. It is admitted and carried out to a greater or less extent in more than half the agreements now made, and would be in more were it not for the carelessness of tenants when taking their farms, many of whom will sign anything that is laid before them, and others, for the sake of saving a guinea or so, will not take the agreement in draft to consult some solicitor or friend who understands the subject. It is well known that the better the crops grown on the land the more the land is enabled to grow, from the accumulation of vegetable matter in the soil, the rick-yard, and in the fold-yards. This accumulation takes place something after the rate of compound interest: suppose, for instance, we take one field on a farm where the system is what is known as the four-course—the tenant is induced to lay out £3 per acre extra on his turnip crop and consumes £3 per acre in corn, he gets the value of his money in extra meat and corn, and knows it pays him; but at the end of the rotation he has had to consume probably six tons of roots, one of barley straw, one of clover, and one ton of wheat straw, all extra through the expenditure of the £6. Then in the second rotation, he not only consumes the increased crop from a second outlay of £6, but he has the increased crop from the manure produced from extra outlay on first rotation, the manure from which was at least worth £3, so the £6 and £3 is equal to £9 in the second rotation. The same thing goes on for the third rotation, when it is probably £13; of this £13, the tenant's share is only £6 even if compensated in full according to any acknowledged system at present used, and this leaves £7 for landlord's share for simply inducing the tenant to spend his money by giving him security, and for which he himself pays nothing. Take as an example where a good farmer has had a farm for fifteen or twenty years, look at the increased ricks and stock kept from the same land; and this is an important item that tells on re-letting, and I have little doubt the landlord's share from the exertions of a good farmer is something like £10 per acre in 20 years in having a good tenant over a bad one, and this after the tenant is fully compensated for his share, and this irrespective of the gradual apparent increase in the value of land, or rather the reduction in the value of money. That it is to the landlord's advantage I think I have sufficiently shown, for he has his farm to let at the expiration of any tenancy, looking its best instead of its worst. But besides this there is another most important consideration for the landlord—if any system of compensation is carried out there will also be pains and penalties for bad farming; and if a tenant farms a field or farm badly, he will have to compensate the landlord for the damage done thereby. It is to the tenant's advantage, because he knows that if he farms his land well he will be compensated for any unexhausted improvements, and it saves him the trouble and unpleasant business of recouping himself when he is going to leave, besides the inducement it gives him to farm his land in the most paying way, viz., by high farming; for we all know that if you

want to keep your land clean and in a good state, it is best done by heavy crops; nothing in fact cleans it so effectually as a laid crop of corn on the arable land, and feeding fat full-grown animals on the pasture land, with plenty of corn and cake, is the surest way to improve this. The incoming tenant has apparently the worst of it, for he not only pays an increased rent according to the increased capabilities of the land, but also pays the outgoing tenant for the unexhausted portion of the improvements; but even here, strange as it may seem, I contend it is to his advantage, because he goes into the farm and it is ready for him to go on realising a profit at once, while if he takes to the farm out of condition, he is often four or five years in getting it right before he gets a return. For although it is one of the objections that the income has so much to pay on entering, and thus it cripples the young farmer to have to pay £2 or £3 per acre to the outgoing tenant, it is a very poor argument, for he must have a capital of £3 or £10 per acre; and if he does not pay the outgoing, he has to spend probably double the money in getting the land into a similar profitable state; therefore it matters little whether he pays down his £2 per acre on entering, or has to spend it in the first two years, and the valuers take care he has value for his money, if they understand their business, and do their duty. To the community at large I need scarcely say it is an advantage, for apart from the fact that it is to their interest for as much to be grown on the land as possible, this being a country that has to go to foreign ports for a large portion of its food, the more there is grown at home the less money goes out of the country for its purchase. And I am sure with a good system of compensation the produce of the country will annually increase. It is, therefore, so much to the interest of every class to have this carried out, that I do not see how Parliament can well refuse it. The only argument that can be brought against it is—that letting land is a private bargain and that it should be provided for by agreement; but it is for this very reason we ask the aid of Parliament to alter the law. Were it not that under existing circumstances everything attached to the freehold becomes part and parcel of that freehold, the necessity would not so much arise, but when we know that this is so, and that to farm profitably and to make the most of the land, the farmer has at least £2 per acre sunk in the land in the shape of manure from corn and artificials, and may profitably have £5, it is impossible that Parliament may do otherwise than grant it, if they wish to retain the high character they possess for dealing out justice. It is very unfortunate that the Irish Land Bill has been such a mistake there. A man rents land (and claims compensation) for giving it up, and in some instances the worse he has done it, the more exorbitant his demand. We here ask for nothing of the sort, we simply want to correct a great national evil, viz., to amend a system by which one tenant reduces the land to as near poverty as he possibly can, and the next tenant has four or five years' labour to get it back to its profitable state, while if recognised by law, they have simply to call in two valuers, or their umpire, and all this trouble and loss is obviated by the one writing out a cheque and handing it over to the other, as is so successfully done in Lincolnshire, and where, by its aid, farming has attained its highest state of proficiency. With regard to the details of the system, I believe it is the opinion of this Chamber that we should not go into this, but simply ask for a recognition of the principle by law, and leave the carrying out to valuers. But before finishing the subject there is one point I will just mention, viz., that the compensation is wanted more especially for the smaller improvements; those of a more permanent character, such as buildings, draining, &c., should be done by the landlord, and if not are mostly a matter of arrangement; but the unexhausted value from consumption of cake or corn, use of artificial manure, &c., are on many estates left to chance, and in the uncertainty the outgoing tenant does not use them, as before shown. A Court of Arbitration, with a number of appointed valuers under them in each county, could well judge of every case that was likely to arise.

Sir GEORGE JENKINSON, M.P., the chairman, having read

the circular resolutions from the Central Chamber, said these resolutions seemed to him to be framed entirely in the spirit of the paper read by Mr. Cadle, and with every word of which he entirely agreed, as he did also with the resolutions before them which had been submitted by the Central Chamber of Agriculture. As to the amendment which had been proposed by Mr. Long, he (Sir George) certainly could not see any difference between the spirit of that and the spirit of the resolutions which were proposed, except that one was contained in four lines and the others in three paragraphs. With that one exception he could not see any difference between the amendment and the resolutions. The remark which he wished to make on the subject was that, judging from his own knowledge and experience in this county, he believed that what they were now advocating—with the exception that twelve months' notice to quit instead of six months' was proposed—was what really prevailed in the country. Speaking from his own knowledge, too, he could only say that he had never known a tenant about to leave a farm but who had called in a valuer, and if he and the landlord could not agree, an umpire also, and they had decided what compensation should be given for all unexhausted improvements which he had made to the land. With regard to what Mr. Cadle had said upon providing buildings and draining, there might be some exception, and it would be far better for the landlord to undertake improvements of such a permanent character, which he might do without burdening his own pocket by obtaining Government allowances or help from private companies. And it would be just as easy for the owner of an estate in entail by these means to make improvements of such a permanent character; and if he did not neglect to discharge his proper duties as a landlord, and acted unfairly to his tenant. If a landlord chose to let a farm out of proper condition (as was often done in Scotland), and the tenant on that account chose to take it at a reduced rent, say for 21 years, and lay out his money in improving it, that might answer very well, and was simply a matter between two men. But he did not think that was a plan often adopted in this country, and he thought it impossible to lay down one fixed rule which should apply to the whole of England because custom varied so in the different counties. Even in this county there was very little outlay to be provided for by tenants, except it might be in the matter of feeding-stuffs and manures; a very different state of things to what existed in large corn-growing countries and even in Scotland. And if, as he supposed, it was the custom for the outgoing and incoming tenants to adjust the claims which the former made, and which the latter ought to pay, then it seemed to him (Sir George) that all was done which was advocated in these resolutions. At the same time, if they thought a legislative enactment was required to make that custom law, then he would gladly do all he could to assist in passing a measure for that purpose. He quite agreed with Mr. Cadle that the measure ought not to be one based upon what was generally called the wrongs of tenants, but that it should be simply one which should enforce compensation for unexhausted improvements. But care must be taken to guard against passing such a measure for England as had been passed for Ireland. That, in his opinion, was a wholesale measure of what he called robbery, whereby many a tenant received hundreds of pounds, not only for work never done, but for leaving the farm in a most disgraceful state. That was a measure of the greatest injustice, and could not possibly work well, because not properly based. Of course he agreed that every tenant who laid out his money in making permanent improvements to his farm should be compensated; but the system of paying the tenant a certain amount for what was called disturbance he thought was a bad one and could not possibly work well. Disturbance in most cases simply meant that the landlord put out the tenant who was farming his land badly and put in one who could do it better; and a measure based on such principles as made the landlord pay the tenant in such a case as that, was an unjust one, and one of which any legislature ought to be ashamed. He hoped that nothing of that sort would ever be admitted in England. If it was, he believed that the first persons injured would be the tenants themselves. Good tenants ought always to be encouraged in any outlay which they made for improvements, and in case of their leaving should be compensated for such outlay; but he held that the landlord ought to retain the power to turn out a bad tenant without giving him any compensation whatever. A bad tenant might leave the land a mass of filth, and in such a case

as that surely no one would advocate his being paid for what was commonly called disturbance; merely turning out a bad tenant, and putting a good one in his place.

Mr. D. LONG entirely agreed with Sir George and with Mr. Cadle in the principles they advocated. But Sir George was in error in saying that compensation for unexhausted improvements was recognised by valuers in this county. Valuers always recognised improvements which had been made during the previous twelve months; but unless they found an agreement to the contrary, they never went back further. He thought if this matter was recognised by the Legislature valuers would very soon act, and act fairly upon it; but the question must be legislated upon on its general principles, without entering into detail, because in legislating for what would suit one county, they would not be legislating upon what would suit another. That was the reason why he proposed his amendment, in opposition to clauses *a* and *b*, as he thought they went too much into detail. It was not now exactly as it first stood; but he had been induced by Sir Michael Hicks-Beach to alter it, in the hope that in some way or other the Legislature would recognise its principles. And if he moved any resolution at all that would be it. Mr. Cadle had truly said that such an enactment would have the effect of encouraging the production of home-grown food, and anything which did that they ought to support. Mr. Long then moved the following amendment: "That this Chamber considers it necessary for the proper security of tenants' capital engaged in husbandry (as well as for the encouragement of the production of the greatest amount of home-grown food), that the outgoing tenant should be entitled by legislative enactment to compensation from the landlord or incoming tenant for the value of his unexhausted improvements, such value to be ascertained in the usual way."

The CHAIRMAN said this amendment did not provide any basis for the guidance of arbitrators, or any compensation to the landlord in case of dilapidations.

Mr. LONG said the Government could only recognize it in that general manner without going into its details. With regard to the clause which provided that twelve months' notice to quit should be given instead of six, he thought everybody would agree to that; he only proposed his amendment in opposition to the first two clauses.

Mr. WOODWARD said he could not quite agree with the twelve months' notice to quit. Law was not wanted for good landlords and tenants, but for bad ones, and his opinion was that a six months' notice to quit was quite sufficient. Valuers could ascertain what improvements had been made to the land, and what money had been expended during six months much better than they could by going back twelve.

The CHAIRMAN said the resolutions did not propose to make that a law by legislative enactment; the Council had simply expressed it as its own opinion. In the case of six months' notice the valuers would doubtless have much less to do; but the question of notice to quit would be much better left to agreement between landlord and tenant. The enactment proposed was for the purpose of giving the tenant security for unexhausted improvements; but he (Sir George) believed that practically the tenant usually received compensation for all the money which he put into the land. That brought them to a matter which had been very little touched upon—the question of leases. He believed that, under such an enactment as was proposed, a tenant would be much better off than under a lease. Certainly he would be in this county, though perhaps he would not in counties where an enormous amount of capital was put upon the land, or in Scotland where the system of twenty-one years' leases prevailed. A farmer renting under a yearly tenancy would be far better off than under a lease in many cases which might be mentioned. Take, for instance, the agricultural strikes. If a tenant had a farm under a lease, and the strikes had put him to a very great inconvenience, as they had many farmers, and new charges were in addition saddled upon the land, he might find it to his interest to give up the farm; but holding it under a lease, he could not do so. He could not go to the landlord and say, "This farm has turned out very bad, and I want you to take it off my hands;" but he must keep it on, and continue to pay the increased charges in the shape of local taxation, and put up with all the rest of the difficulties which met him. But in the case of a man who held his farm on a yearly tenancy, under such conditions as were proposed, when he found himself getting into difficulties of such a nature he could

say to himself, "In the face of all these burdens it doesn't do for me to carry on my farm, and I shall give it up." He was not bound by law to keep the farm on, and knowing that he would get compensation for all unexhausted improvements, he in his (Sir George's) opinion was much better off than he would be under a lease. Of course it was a matter of opinion, and he merely expressed his own opinion upon it.

Mr. LONG said he meant the principles of compensation to apply in all cases, whether in cases of leases or of yearly or half-yearly tenancies.

Mr. W. LAWRENCE said he disagreed very much with Mr. Woodward's opinion that a six months' notice to quit was preferable to twelve. He (Mr. Lawrence) should prefer two years to twelve months.

The CHAIRMAN suggested that Mr. Long should add to his amendment a provision that the landlord should be compensated for any dilapidations on the farm.

Mr. LONG: No; I object to that, because valuers already recognize any dilapidations on a farm, and there is nothing which enforces a recognition of unexhausted improvements.

The CHAIRMAN: But I think if that were added it would make the thing more complete.

Mr. LONG: No; I say that all we want is a recognition by the Legislature of the value of unexhausted improvements.

Mr. WOODWARD: But what objection would there be to making such an addition?

Mr. LONG: It is unnecessary, because the principle is already recognized by law.

Mr. WOODWARD: But is it recognized to a sufficient extent?

Mr. LONG: Yes; it is.

The CHAIRMAN said he did not think it was generally recognized, and he did not know of any legislative enactment which enforced it, though individual valuers might act upon it.

Mr. CHANCE said he had known actions brought against tenants for compensation for dilapidations, and decided upon evidence such as Mr. Long indicated, and the "custom of the country."

Captain DE WINTON: But supposing a tenant takes a farm in good condition, and after a lapse of ten or twelve years, finding his lease running out, he allows it to get into a bad condition, how are you to value the deterioration of the value of that farm?

Mr. FRIDAY: The valuers must decide upon the statements made.

Captain DE WINTON: But suppose the landlord says it was in a good condition at the time the tenant took it, and the tenant says it was not?

It seemed to be the general opinion that only the statements of the landlord and the tenant could be decided upon in such a case as that.

The CHAIRMAN said that if the custom of allowing landlords compensation for dilapidations existed to any extent, it could not do any harm to make it compulsory.

Mr. LONG: I should not like to append it to my resolution.

The CHAIRMAN then read an extract from a discussion which had taken place at the Cheshire Chamber of Agriculture some time since, when a resolution was adopted affirming the principle that an out-going tenant should be legally entitled to compensation for unexhausted improvements which had been made with the consent of his landlord, and the landlord to be compensated for dilapidations through the neglect of his tenant.

Captain DE WINTON said he thought no more important question could be debated by Chambers of Agriculture than that they were now discussing. He thought, too, that all would agree with him that as a rule farms were not cultivated to anything like the extent they ought to be, either in the production of meat or corn, because sufficient capital was not invested in the land. But the fact was there was so little encouragement to the farmer or the landlord to invest his capital. Supposing, for instance, that he chose to invest £30 upon twenty acres of land by increasing its productive powers and putting up good buildings upon it. What was the result? The land was worth so much more, so there must be much more income tax to pay, more to pay as a poor-rate, and so on, and yet the land was producing much more corn or much more meat for the benefit of the people. Instead of mulcting the investor with increased charges, he thought he ought to be encouraged to continue his improvements.

Mr. WITCOMBE: But it is the capital which you have to put into the land upon which the extra charges arise.

Captain DE WINTON said that was true, but mulcting a man in heavier charges when he had invested his money to improve the land certainly was not encouraging him to invest it.

Mr. LONG: In going into this matter I rather think you are touching the question of local taxation instead of unexhausted improvements.

Captain DE WINTON: There are so many questions you may go into when you begin upon this.

Mr. S. FRIDAY: It is the capital invested in the land which is charged. If you invest your money in the land, there is no more harm in charging you with heavier rates than there would be me, supposing I was a manufacturer and extended my business by means of my capital.

Captain DE WINTON: Except that I do more good by investing my capital in the land than I should by any other means. With regard to compensation for unexhausted improvements, it must be recognised by every one that if a landlord took advantage of the outlay of his tenant, and did not remunerate him at the expiration of his tenancy, it was not going too far in characterising that as nothing but a robbery. It was a question which required a great deal of consideration, and in saying anything upon it he only desired to encourage an increased investment of capital in the land, which would not only prove a benefit to the investor, but would also be a great national good. In the face of the increasing population of this country, they ought to do all they could to show to the people that they were doing their duty, and making use of the land, not only for their individual benefit, but also for the general good of the country. Anything which had that tendency they certainly ought to encourage. But in case of legislative enactment on the question under discussion, would it not be rather a difficult thing for valuers to decide of what unexhausted improvements in certain cases really consisted? For instance, they might use a great quantity of bone, or guano, as manure; who was to tell, in case of valuation, what that manure was really worth? Some were of opinion that manure was not worth anything after the first year of its being used.

A MEMBER: Good guano is.

Captain DE WINTON: Yes, even with guano; except in cases where it is applied to roots, and the roots are fed off, when of course the land is improved. Continuing, Captain de Winton said that in this country we never could grow anything like sufficient corn for home consumption; but it was likely that much more meat might be produced if the necessary steps were taken for that purpose. And after draining, without which manuring the land was simply a waste of money and time, he looked upon it as most important that sheep should be fed upon the land, thereby not only improving it permanently, but benefiting the people by producing a larger supply of meat. Captain de Winton alluded to the varying value of manures, and their effect upon the land, and said that he should object to any compensation for unexhausted improvements unless a proper scale was laid down to which he could agree.

The CHAIRMAN said that the question of value of manures was a most difficult one to deal with. Some people said that manures were only of use for one year, while others maintained that they improved the land for a much longer time. How, then, were they going to deal with that by legislative enactments?

Mr. W. LAWRENCE said they could not possibly go into the question of detail; the question must be dealt with on its general principles. He knew from his own experience that bone manure was extremely valuable, and he was acquainted with a field which had been partly manured with bone 29 years ago, and even now the superior quality of the land in those parts could easily be seen. At the same time he knew some land on which bone manure had been placed which had not received the slightest benefit. So that if a scale of compensation were drawn up it might be made to act very unjustly; a tenant might lay out £100 in manuring his farm, and then when he left it not receive one hundred pence. Government must be asked to legislate for compensation to the tenant for what money he had properly spent, and not what had been spent improperly.

The CHAIRMAN thought they could not do better than express their approbation of the principles laid down in the resolutions from the Central Council. He should be sorry to

see Mr. Long's resolution go forth, unless the rights of landlords were recognised as well as the rights of tenants.

Mr. LONG : Then perhaps you will put my resolution first. I should not like to attach such a principle to it.

After a short conversation between several members as to the values of manures,

The CHAIRMAN said he believed that if a tenant had spent a sum of money for manures for his farm, and was turned out at a six months' notice, he would, if he chose to go to law, be sure to get damages awarded him.

Mr. LONG : Suppose a tenant were to put eight hundred-weight of bone to an acre ; that would improve the land year by year. If I, as a valuer, went upon that farm to make a valuation, under the existing state of things, unless there was an agreement to the contrary, I could not include the value of that manure, if put on the land more than twelve months before, and the tenant would not get anything for it.

Mr. PRIDAY : And that has often been the case in this country.

Capt. DE WINTON, as an illustration of the value of bone manure, said that when he first entered upon his estate he found one part of a very poor field covered with rich clover, and he never could solve the mystery until one day in digging he came upon a number of horse-bones, and afterwards found that a dog-kennel had once occupied that very spot. That, however, was seventy or eighty years ago, and the extraordinary richness of the soil in that particular part at once convinced him of the value of bone as a permanent manure.

The CHAIRMAN said he thought the difficulty of drawing up schedules of allowances might be met by each county drawing up a schedule suitable for itself.

Capt. DE WINTON expressed himself in favour of this, as it would give valuers a data to go upon.

The CHAIRMAN : And the man who takes the farm would know what he had to do.

Mr. T. MORRIS : But cannot all this be done much better by actual agreement between the landlord and tenant than by legislation ? In my experience I have always found such to be the case, and I don't see that we want legislative interference at all.

A conversation then ensued upon the customs in Herefordshire of making compensation, some of the members saying that unless in cases of agreement the tenant was never compensated for his improvements, and others alleging that they were.

Capt. DE WINTON sketched out a system of compensating for unexhausted improvements which he said he thought might be made to act very well. This was to the effect that a tenant on taking a farm should agree to expend a certain sum of money in improvements which should extend over a series of, perhaps, thirty years. This should be divided into six periods of five years each. If a tenant was obliged to leave, say at the end of five years, he would receive from the landlord twenty-five thirtieths of the money he had expended and so on in proportion to the time he had occupied the farm. If he kept the farm on during the whole of the thirty years, then he would be supposed to have recouped himself for the money he had expended.

Another long conversation ensued, after which,

Mr. DORINGTON said he did not think the state of the law was sufficiently understood that the landlord had a right to compensation for dilapidations ; but even in that case he thought the landlord ought to have a remedy for obtaining this compensation without any law proceedings whatever. There was an Act passed in 1850 by which if a tenant put up buildings upon a farm he might either remove them or the landlord might buy them ; but it seemed to him that as the building materials were worth little in comparison to the expense of erecting the building that Act did not anything like settle the question. Something more than that was certainly wanted. And then in compensating tenants there were very great difficulties to be met. Valuers, he thought, in many instances did not pay sufficient attention to the state of the crop, and relied a little too much, sometimes, upon statements made to them. He knew a case in which some valuers had made a valuation as to some seeds which it was said had been put into a piece of land, and yet when he (Mr. Dorington) walked over the

land some time afterwards not a vestige of a seed was to be seen. But he thought legislative enactment was necessary to protect the tenant and the landlord, and then he thought they might trust to the good feeling which existed between both to its being properly carried out.

Mr. PRIDAY said that in dry seasons it was often the case that seeds did not come up at all ; and valuers in such a case would only charge for the value of the seeds and the labour of putting them in. And he thought it only right that if a tenant was compelled to put the seeds in the ground that he should be paid for them when he left.

The CHAIRMAN : Compelled by whom ?

Mr. PRIDAY : By the agreement.

The CHAIRMAN : Then, according to that, if a bad season arrives, and a tenant is going to leave, the in-coming tenant has to lose the money, and not the out-going one ?

Mr. PRIDAY : Certainly. If the out-going tenant knows he is going to leave he would rather not sow his seeds, but, as he is compelled to, it is nothing but right that he should be paid for them.

Mr. BUTT said he thought Mr. Priday was quite right about seeds not always coming up in dry weather. He (Mr. Butt) had had a field which contained fifteen acres, and which was sown twice with turnip seed. He left the farm and was paid for that seed, and some time afterwards the succeeding tenant told him that only one turnip had come up, which he thought so remarkable that he had a photograph of the field taken with the one turnip shown in it.

A long conversational discussion ensued upon the resolutions proposed. Captain DE WINTON said that last June the Chamber decided that legislative interference on this subject was not necessary, and questioned whether the Chamber ought now to over-rule the decision. He proposed the resolution which was passed in June last to the effect that legislative interference on this subject was not necessary. This was seconded by Mr. THOMAS MORRIS.

Mr. CHANCE urged that the resolutions passed last June did not prevent the members from now showing by a contrary vote that the Chamber had advanced in its opinion ; and he pointed out that the resolutions of the Central Chamber depreciated legislative interference, while that of Mr. Long was based on the necessity of legal protection to the tenant.

Mr. Long's resolution, as given above, was proposed and seconded ; and the following resolution was proposed by Mr. CHANCE and seconded by Mr. DORINGTON : " That the above resolution (Mr. Long's), and any legislation which may take place thereon, shall be subject to previous consent of the owner with respect to drainage, reclamation, and other improvements of a permanent character ; and that at the same time the landlord should be paid by such out-going tenant for dilapidations and deteriorations, the amounts respectively due to be determined by valuation."

The resolutions were then put to the meeting. To Captain de Winton's resolution three voted ; for Mr. Long's resolution 14, and 1 against ; for the additional resolution 14 also

TENANT-RIGHT.—At a meeting of the West Riding Chamber of Agriculture at Wakefield, Mr. Lipscombe moved that the resolutions of the Central Chamber be adopted. Mr. Cooper (Woolley) seconded. Mr. Burton (Wakefield) thought it was ridiculous to talk about a tenant making permanent improvements without the consent of the landlord. Mr. Norwood moved as an amendment on the first resolution " that no further legislation is required as affecting the position of the outgoing tenant and his landlord with regard to permanent improvements." Mr. Kaye (Bretton) seconded this. Five voted for the amendment, and the resolution was carried. The second resolution, that respecting the tillage, was put and carried with acclamation. The third and last resolution, referring to the twelve months' notice to quit, was carried in a formal manner.

TENANT-RIGHT.

At the quarterly meeting of the Devonshire Chamber of Agriculture, held in Exeter, Mr. J. H. Kennaway, M.P., presided.

The CHAIRMAN said there was no regular agenda for to-day, but they had received from the Central Chamber a series of resolutions which it was proposed to submit to their Council in November next. These resolutions related to compensation for unexhausted improvements, security for tenants' capital, security to the landlord against the value of his farm being depreciated, &c., and they had been sent to all the Chambers in the country with a view to obtain an expression of public opinion. There is no doubt that the tenant-farmer should have security for what he has invested in the land so that he may be able to farm up to the last day of his term just as he did at the beginning. It is felt that that is what is necessary to do justice to the productive powers of this country on which so great demands are now being made by our increasing population, and by a population, too, that by the increase of wealth is more and more able to purchase the produce of the soil, and therefore to raise the demand and price.

A question was raised by Sir T. D. Acland as to what form and by whose authority this was brought before the Chamber. The reply was by the order of the Council of this Chamber.

The first resolution to be proposed at the Central Council is—"That this Council considers it necessary for the proper security of capital engaged in husbandry that in the absence of a lease or agreement to the contrary, the outgoing tenant should be entitled to compensation from the landlord or incoming tenant for the unexhausted value of his improvements—subject to previous consent of the owner in the case of buildings, drainage, reclamation and other improvements of a permanent character; and that, at the same time, the landlord should be paid by such outgoing tenant for dilapidations and deteriorations, the amounts respectively due to be determined by valuation."

Rev. W. H. KARSLAKE believed that a great deal had been made of a few instances of ill-feeling between landlord and tenant. He should be sorry to say there were no cases in which hardship was inflicted on a tenant by a landowner, but it was seldom that great injustice could be traced either to the one party or the other. He thought in this matter much must depend on the custom of the country; in the absence of a lease the right thing between landlord and tenant must be decided by custom. But they were now living in a transition period. When he was a young man the custom was for a tenant to leave an estate in as deplorable condition as he could. There was a fourteen years' lease, and the tenant in the first five years was occupied in repairing damages; then he farmed pretty well for the next five years, and for the remainder of the term he was engaged in taking out all he put in. A worse system for either tenant or landlord there could not be. But he hoped the time had passed away for that sort of thing. It was quite for the interest of the landlord, if he would look ahead a little, to make as fair a bargain for the outgoing tenant as it was for the tenant himself. The six months' notice should no longer exist, for it cut both parties. The first thing in all these matters must be a really good and honest understanding between landlords and tenants. The great danger of hardship was where property was constantly changing hands, and there was also a difficulty in the letting of church property, as the present holder could not bind his successor. The habits of society and general feeling were too strong for any injustice to be done. In the case of permanent improvements there should be a fair guarantee to the tenant. Touching valuation, that was very good in theory, but in actual practice it was not so good as it appeared on first sight. The appointment of an umpire was an especial difficulty, and on this point had come up the only dispute he personally had ever had with a tenant. If valuations between landlord and tenant were to be the fashion of the day, he trusted that valuers would educate themselves up to the high calling and the part they had to exercise. As to agents, they had a very difficult part to perform, and he found that an estate was best managed when the owner was himself conversant with the management. He should like to hear the opinions on this

question of those who were both owners and occupiers. The principle of the first resolution was good, and though he should be sorry to pledge himself to the whole of it, he would move that this Chamber express their pleasure at hearing that this subject was to be discussed by the Central Chamber, although at present it feared that there might be some practical difficulty in devising a system of valuation.

Mr. W. WIPPEL thought the absence of tenant-farmers due to the fact that the cases were few and far between in which any interference was necessary in this neighbourhood. The landlords about here generally did their duty, and he hoped the farmers did theirs also. As to the resolution, he had but one observation, and that was on the last sentence—that the amounts respectively due should be determined by valuation. He was between 70 and 80 years of age, and he had always found that the umpire was a great difficulty, and he wondered that the London Chamber had said nothing about this. The umpire should be one not appointed by either party, but by some tribunal that did not yet exist. He had thought of the Quarter Sessions, but then that might be rather one-sided. Still he hoped the time was not far distant when such a tribunal would come into existence. He hoped to see the day when Financial Boards would be established, and as that would embrace both landlords and practical farmers, he trusted that would be a satisfactory tribunal. He seconded the proposition.

Mr. HOLLEY reminded the Chamber that they were touching on one of the most sacred and important rights relative to the property of the country. It was proposed to have a Board of Arbitrators to disturb the private rights of vested interests. Security of this property had always been considered the most important right next to security of life. These arbitrators were to value improvements. In estimating the improved value of a farm there were matters to be taken into consideration, yet there was no man yet born who could grasp it. A considerable improvement would arise from the natural fertility of the farm; in valuing improvements you must define what was due to natural causes, and what to extraordinary additions. He had been fifty years in farming, and he couldn't define it, and he did not believe a Board of Arbitrators could. As to compensation for unexhausted manure, that would be a difficult question to settle, as no one could say what had been put in the ground—neither quality nor quantity. He had been told by a merchant that he sold two tons of manure to a man, who was afterwards able to sell five tons and undersell the party from whom he bought the two tons. Merchants had also been asked for larger bills than were due. They must draw their own inference from this. He thought there were no disputes between good landlords and tenants, and protested against the Legislature interfering between private rights of two individuals. He dreaded this, and nothing would do more to injure the tenants than to obtain the interference of the Legislature in this matter. As to valuations, he had a horror of them. The interferences proposed by the London Chamber were ridiculous and absurd. What did lawyers know about farming, or many of the Peers or Commoners in these Radical times? The Radical members of the towns knew very well about trade, but what did they understand of farming? As a proof, he alluded to the proposition that the farmers should take the labourers into partnership—absurd. And he wished to know why the landed interest required leading-strings more than tradesmen? A shopkeeper worked up a good trade and increased the value of his premises. Now he was able to protect himself. If competition was a reason for the interference of the Legislature with farmers, surely they should also interfere with tradesmen. The best thing they could do would be to leave landowners and tenants alone, or else novices being brought in would only make matters worse. He thought Mr. Karslake had hardly given sufficient weight to the difference between customs. He thought it would be a good thing if a system of custom were established; when there was no agreement it was true custom directed the law, but custom was undefined throughout the country. To the establishment of a good system of custom

landowners and tenants should give their attention. The six months' notice was too short, and in case of yearly tenancy a man should have two or three years' notice beforehand. But it was only under long leases that the land would really be made to produce its fruits. He proposed an amendment that legislative interference was unnecessary in reference to improvements and unexhausted manure.

Mr. UPOTT thought the question of great importance. The time had arrived when the tenant-farmer would have to meet the labour question, and the landowner should put a tenant in as independent a position as possible, and not encumber him with unnecessary restrictions.

The CHAIRMAN ruled that Mr. Holley's motion was not in order as an amendment.

Sir T. D. ACLAND thought it was hardly logical for the Chamber to express an opinion about unexhausted manures when that was not mentioned in the resolution under consideration.

Mr. G. TURNER did not view the Central Chamber resolution with the alarm some appeared to. The object now was to make the land produce as much as possible, and if a tenant spent £1,000 in manure on a farm, it was hard if he could be turned out at six months' notice. If he had a short lease—seven years—he was three or four years in putting in manure, and an equal number taking it out, so that in the end the farm was in a state inferior to the condition it was in at the beginning of the term. Unless something was done, the country and every one else would be injured. If they got some legislative enactment that would always keep the land at its best fertilizing power and give security to the tenant, they would be doing something for the benefit of the country generally.

Mr. W. R. COLERIDGE, whilst agreeing with Mr. Karslake's remarks, thought they should before entering fully on the matter, wait for the decisions come to by the Central Chamber. The landowners had nothing to fear from inquiry.

Sir T. D. ACLAND said considering the part he had taken in this matter during the last 30 years, it would be hardly respectful of him to sit still and say nothing. He confessed that he had felt amusement at some of what he had heard, although it was undoubtedly a very important subject. He had had some difficulty in gathering what they really were discussing. He had come up specially from Cornwall to hear this discussion and he must confess he had felt disappointment at the proceedings of to-day. He had on previous occasions said that if the Chamber was determined to go in earnest into the great questions of tenure of land, the interest of capital, &c., and practical farmers who were engaged in agriculture were willing to come here, he should always be pleased to come and take his humble part in enabling them to come to sound conclusions. By the action of Providence he had lately come to a position which, however, in ordinary course of things he could not expect to continue to occupy for any very long time; he alluded to his position of a landlord. And he must say that it had struck him that with the exception of a discussion on the metric system, and two or three other matters of that kind, the whole of the business of this Chamber had been in the interest of the owners of land and houses. The one question that had seemed to occupy their attention was the pressure—as they viewed it—on landed and house property. There had been very little discussion purely in the interest of agriculture—(A VOICE: Mr. Daw's lecture). Yes, there was Mr. Daw's lecture, and he was glad he had heard that, and should like to hear more from that gentleman. But he repeated that the general discussions here had been confined to the interests of landlords, and very little had been done in the interest of the tenant-farmer. Now he (Sir Thomas) was one of that cruelly oppressed class—the landowners, one of those victims of monstrous, intolerable, and incredible injustice. Now he belonged to the parish of Broadclist; he had a large farm, and was perhaps the largest farmer here. But speaking as a landlord, he was one of that terribly oppressed class who so felt the 2s. in the £—or, to speak more correctly, 2s. 1½d.—that was deducted from their rents for the benefit of the suffering sick poor, for the country administration, and for the care of the roads. He felt deeply indebted to the Chamber of Agriculture for the great zeal they had shown in the interest of the poor oppressed landlords. When he saw that a question affecting the tenant-farmers was coming on, he thought it his duty to put off a very important engagement and to put in an appearance here. But now he hardly found any tenant-farmers present. Why was this? The tenant-farmers had been very kind indeed to the

landlords, and had been petitioning Parliament to take the burden of local taxation off the rents. And now when their own interests were concerned he of course presumed they would be here. But they were not, nor were the landlords here in large numbers to show their gratitude for what their tenants had done and to lend them a hand. Personally he came here to listen as a member of Parliament to the wishes of the tenant-farmers of Devonshire on these questions, so that when they were discussed in Parliament he might be able to represent their views. He was deeply disappointed at finding that they were not here. He wished to point out a little of the difficulty of the position in which the Chamber was now placed. There was an entire absence of precision here. They could not make out from the paper whether they were called on to discuss a legislative question or the duties of landlords.

Rev. W. H. KARSLAKE said they were called on to discuss a question that was to be put before the Central Chamber in London.

Sir T. D. ACLAND, resuming, said it was impossible to gather from the paper before them whether what was aimed at was an alteration of the law by Parliament or an alteration of the practices of landlords in dealing with their tenants. It was, therefore, a very difficult matter to grasp a subject put before them in this way. In the circular they talked about unexhausted improvements. He understood unexhausted manures, but he could not understand what was here meant by unexhausted improvements. No one had attempted to explain what was meant, and whether they were met here as agriculturists, as farmers, as landowners, or as surveyors, they certainly ought to have a distinct understanding of what they were talking about. Mr. Holley, who was a practical man, told them that some improvements were due to extraordinary outlay. Well, that was very intelligible. But he told them also that they were due to the natural operation of the soil. What does that mean? The natural operation of the soil produces improvements? He knew what was meant by the gradual rise in the value of land—and he was afraid a good many tenants knew more than they liked about that—but that was not due to any distinct nature of the soil but to commercial enterprise, to the increased demand for land, and to the fact that whilst the wealth of the country increased, the land was limited in quantity. The number of young men who were willing to get farms and to settle down at almost any price, tended to raise the value of land. But was that increased value of land to be paid back again, or to be paid to the landlord by the incoming tenant? Was this gradual rise in the price of land to be purchased back again by the landlord when his tenant's lease had expired and another man was coming in? Was the incoming tenant or the landlord to pay for that growth in the value of land which the outgoing tenant had nothing whatever to do with? This was a very difficult and intricate question, and he had a very great deal too much respect for those he saw around him, for their intelligence and honesty, to suppose that they meant that, when an estate was let, and the commercial value of the land rose, that that was by valuation to be put into the pocket of the outgoing tenant. But a great many clap-trap speakers did mean this, and if these kind of ideas were taken up by Chambers of Agriculture, the greatest injury would be done the tenant-farmers, for landlords would be frightened, and an alarm would be raised for fear that this increased price of land would have to be purchased back by their sons or grandsons. In dealing with this matter they should say what should or should not be done, for the passing of vague resolutions would do no good whatever. After having worked at this subject for a large number of years, he had come to the conclusion that it was not a thing to be talked about in clap-trap speeches, but a thing to which a man must sit down and work hard. He did not wish to say much about the Irish Land Law Bill which had been passed by Parliament. [Mr. DAW: The less the better.] Stop, now. There had been a bill passed about the land in one part of the United Kingdom, and there may be further bills about land for other parts of the Kingdom, and it is not altogether well to forget these discussions. Now, in all these discussions they could not help seeing that the question of the rent of the land was a very vital matter in considering the nature of improvements. Consider this question. A man let a farm fifty years ago at a rent which might possibly then have been the full

value of the farm. The farm might have been wet, or altogether in a backward state. There might be another farm of the same quality alongside it. In the one case the landlord does a great deal in putting up buildings, draining, &c., and in the other he does nothing. Are you going to pass one resolution, and apply the same principle to both these cases? Now, say a third farm was let fifty years ago at 15s. an acre, and, in the judgment of practical men, it may now be worth 20s. or 25s. One man has raised his rent gradually at three or four successive lettings, whilst another man has not raised his rent. You find a great improvement in both these farms. Are you going to deal with both these farms on one principle, and going to form the same rule for dealing with improvements in both places? Are you going to value the man in and value him out, and then say the difference between the value of the farm at the beginning of the term and its value at the end is to be handed over to the outgoing tenant, though it may be foul and thoroughly racked out by bad farming? They could not pass these resolutions without details. He did not come here to gain popularity by talking about Tenant-Right, for he had been working about it all his life, and had nothing to gain. But his earnest desire was to help the tenant-farmers, and he wanted to help them to come to a suitable settlement. His words and his intentions on this matter might be misconstrued. But he had been working hard during the last three years to draw up a practical form of agreement on which they could work, and if any one else tried to do the same they would agree with him that it was a difficult matter. He began it during the life of his late good father, who was good enough to allow him to try and get the relations between him and his tenants on a more definite footing, in order that the tenants' capital might be placed under something like security. It was a difficult matter, but he hoped he had succeeded, and that he had some good results on the matter, with the assistance of lawyers and some most able land surveyors. He was not, however, going to enter into competition with Lord Leicester and advertise his lease for public discussion. He did not regret that this matter was to be discussed by the Central Chamber of Agriculture and the Farmers' Club, and he thought the latter likely to arrive at quite as good resolutions as the former. The more this matter was discussed the better, but they must not think they were going to assist Parliament much by passing vague resolutions. It was an extremely difficult question, and he thought it very likely that Parliament would be called on to legislate. Believing that, he should be very careful not to commit himself in any way, because he thought it the duty of members of Parliament to wait until they saw what the country really wanted, and heard the discussions on the matter before coming to a definite opinion. He did not think that they were really called on to consider the matter to-day because the resolutions in the circular had not been passed by any meeting, they did not know whether any one had resolved upon them, but all they did know was that there were three or four complicated propositions sent down to them to give an opinion on. He should decline to give any opinion on them. Mr. Norrish had put a practical question before the meeting—whether the law of the land should continue which enabled a landlord to give a six months' notice. In the form of lease he had alluded to he had left a blank for the number of months, because there were circumstances under which even twelve months might be a short notice, and a noble lord of this county always gave two years. Some people thought that this notice was required, but the matter entirely depended on the kind of land that was concerned. He only wished to add that more encouragement should be given to letting small holdings to labouring men. He wished there were a greater number who let land to poor men—not only that there were quarter and half acre allotments, but he wished there were tenants of three or four acres, so that the men might keep a cow (No, no). It was all very well to say “no, no.” Let them have a discussion about it. They might depend upon at that there was a growing feeling in the country that the poor man ought to have more opportunities of occupying land.

Mr. Daw thought that the abstract resolutions brought here could never be of any good, and it would take years of labour to draw up any sound scheme for regulating tenants' improvements. A committee was appointed by the Bath and West of England Society, and after sitting week by week for nine months they found an insurmountable difficulty in dealing with the sub-

ject, and gave it up as a bad job. There had been a great deal of talk lately about burdens on land, and though there were one or two items put on by the Legislature, yet he failed to see that there was a very great pressure put on the landed interest—and any one looking back on his farm for 40 years would not, he thought, find that the taxation was greater now than it was 40 years ago. He thought the country was already overlegislated, and he particularly thought this when these improvements were mentioned. As to notices, he thought there should be none less than two years. Touching cows, if it was proposed to give a cow to every labourer's son, there was only one-fourth of the number of the cows in the country that would be required for the purpose.

Sir T. D. ACLAND said he wished to add that the Bath and West of England Committee was composed partly of tenant-farmers, and to their honour be it said that they resolved that no tenant-farmer should be entitled to compensation unless he left his farm clean, and if it was not clean, a deduction was to be made from the compensation given him.

The CHAIRMAN said although this meeting was not a very large one, yet all classes were fairly represented. As to the matter discussed in the Chamber, they had endeavoured to come to right conclusions on such things as the public health, highway districts, education, the condition of the labourer, parish constables, and numerous other things, and to-day they brought up the question of Tenant-Right. He had much pleasure in putting the motion, and it was carried unanimously.

Mr. HOLLEY's amendment was about to be put as a resolution, when Sir T. D. ACLAND pointed out that the effect of it would be to say that everything was satisfactory. He supposed that was not meant.

Mr. HOLLEY withdrew his proposition.

On the motion of Mr. NORRISH, it was agreed that the six months' notice was opposed to good farming, the adequate cultivation of the soil, and the true interests of agriculture.

The Chamber then adjourned.

ROYAL AGRICULTURAL BENEVOLENT INSTITUTION.

At the dinner of the Bedfordshire Agricultural Society, after the ploughing match,

Mr. JOHN ROGERS, the new secretary of the Society, in the after part of the evening, said there was a toast which on these occasions had been unaccountably forgotten, and which deserved to be brought forward, he meant The Agricultural Benevolent Institution. He thought the young people ought to be reminded that there is such an institution in existence, although the fact was that it is increasing every year and rendering benefits to many candidates, so that it was deserving of support. In each district there were no doubt gentlemen who would volunteer to receive subscriptions.

Mr. GEORGE STREET, the chairman, said: With regard to the Royal Agricultural Benevolent Institution, referred to by Mr. Rogers, the Messrs. Howard had taken a very great interest in it, and had got a number of members to join, but the money when forwarded to the secretary was not immediately acknowledged, and the voting papers were not always sent down. That was his own personal experience. During the last year he had sent to the Messrs. Howard five guineas to qualify him to become a life member of the Society, but although that amount was sent up immediately the receipt was not returned. If that was the only instance he should have passed it over, but he wrote to the secretary stating that as he had sent the money with a special object he requested that it should be returned, and the result was that he had got the money back. This was a very important matter, and as the Society was one which they all desired to support he thought the secretary ought to do his duty. He deeply regretted that the thing was not properly managed.

Mr. R. B. STAFFORD said that he endorsed a good deal of what Mr. G. Street had said. His late father had been deeply interested in a case from the neighbourhood of St. Neots, and several gentlemen there informed him that they had nowhere to pay their money. Under these circumstances he (the speaker) received their subscriptions and got them their voting papers, and this showed that there ought to be some one appointed in each district to receive subscriptions. He men-

tioned this in order to bear out what Mr. George Street had said, that there was great neglect in the affairs of the society. If the matter were taken up properly there was not a farmer who would not subscribe. He thought they should one and all do all they could to obtain subscriptions.

The CHAIRMAN thought that the feeling of the agriculturists generally was either that the Society should do its duty or cease to exist. The fault lay entirely with the general

office, and unless they did their duty they could not expect the work to prosper.

Mr. F. STREET urged the desirability of having the Society made better known to the agriculturists.

Mr. ROGERS said that as the Society was conducted on the voluntary principle no secretaries were appointed in the various districts unless persons offered themselves voluntarily through the interest they felt in the work.—*The Bedford Times*.

LAND TENURE.

The following report has been drawn up by the Land Tenure Committee of the Staffordshire Chamber of Agriculture: Your committee, having fully considered the question of land tenure, has arrived at the conclusion that, in order to ensure the best possible cultivation of the soil, it is necessary to afford greater security to the tenant farmer than at present exists for the capital invested in its cultivation. Your committee is therefore of opinion that it is desirable to provide by law as regards agricultural tenancies, to finally determine the amount due either to landlord for depreciation of property by default of tenant, or to tenant for unexhausted improvements, and that, except when otherwise expressly stipulated by contract between the parties, all difference between landlord and tenant on the expiration of a tenancy shall be referred to arbitration, either by public arbitrators or in manner recommended in the following agreement: Your committee strongly recommends the annexed memorandum of agreement for general adoption in the district for the following reasons: Believing that the one object, compensation to the tenant, is entirely consistent with the other, protection to the landlord, the committee has endeavoured to put the principle above enunciated into a definite and practical shape by drawing up a form of agreement which would leave tenants as unrestricted as practicable, make it their interest to farm well to the end of their tenancies, and so entail no loss upon the landlord or the next tenant. There is very little that is new in the provisions of this proposed form of agreement, although some of them are not generally adopted, viz., as to termination of tenancy—12 months notice to be given instead of the usual six, except when executors of tenants are concerned. No restrictions as to cropping during the continuance of the tenancy, but only as to the state of farm on leaving. Reservation of feathered game only. Compensation to tenants for unexhausted value of purchased food and manures used during the last years of tenancy, and for leaving land clean. The object of the committee has been to secure to tenants a return for their expenditure, liberty to cultivate the land and dispose of their crops in the way that will pay them best, under such conditions as will prevent deterioration of their farms, and the removal of the objection to game preserving. Believing that the adoption of such an agreement would promote the interests of landlords and tenants, as well as that kindly feeling which should always exist between them, the committee venture to submit it to the consideration of the members of the Staffordshire Chamber of Agriculture. A memorandum of agreement is appended.

The Earl of HARROWBY moved the adoption of the report. There were two great divisions of opinion in regard to the best means of giving better security to the tenant-farmer than at present existed; some being in favour of leases, while others thought that an agreement for a lease, but with a shorter power of determination and with provisions for compensation to the tenant, were preferable. He thought the Chamber generally agreed that the latter plan was the best, and it seemed to him that there was this great defect in the system of leases for years, that there was a temptation to a great breach of continuity, as towards the end of a certain time the tenant's interest in the farm was materially affected. Another principle of the agreement was that there should be no restrictions as to cropping during the continuance of the tenancy, but only as to the state of the farm when the tenant left. He thought they were all agreed upon this, that there should be greater elbow-room given to farmers, and that the leading strings which formerly rather fettered than guided them were no longer necessary. Then they came to the preservation of fea-

thered game only, and they all knew that the question of game generally was a very difficult matter. He himself was no sportsman or strict game preserver, but he did not see how they were to get rid of the evils attending the over-preservation of game except by interfering with the liberty of contract, or telling the tenant that he might let his game to any one but his landlord. He thought it would be a very harsh thing to say that the landlord, the real owner, was the only person who was not to have the enjoyment of sport. He did not see any just mode of dealing with the question, except good sense and arbitration—although he admitted that in this case arbitration was not so easily applicable as in others, where it was resorted to at the end of a tenancy; for though arbitration during the continuance of a tenancy might settle the particular point at issue, it would not settle the state of feeling between landlord and tenant. Compensation for unexhausted improvements and the value of artificial food and manures purchased during the last year of the tenancy were all very properly to be left to arbitration. It seemed to him that one of the most valuable novelties in the agreement was the encouragement given to a tenant to leave the land clean by paying him rather over than under the amount he had expended in cleaning it, for one pound expended in preventing land getting foul was worth two spent in cleaning it afterwards. In conclusion the noble Earl said the general principle of the agreement was that all differences between landlord and tenant should be settled, not by an appeal to law, but by arbitration, except when otherwise expressly stipulated.

Mr. T. C. SMITH seconded the motion.

Colonel DYOTT, M.P., as to the vexed question of game, saw his way very clearly through it, and he had always thought that there was no particular relation between landlord and tenant which was so capable of an easy solution. If game did damage to a tenant's crops, let him go to the landlord and say, "I must have compensation or this game must be destroyed." [A TENANT FARMER: "If a tenant did this he would soon get notice to leave." Cries of "Hear, hear."] He himself never had any difficulty with the game question. At the same time he entirely disapproved a landlord letting the shooting to strangers, and he thought that this practice was a practical grievance which ought to be put down (Hear, hear). As to rabbits, the tenant ought to have leave to destroy them all the year round in any way he chose, for they were animals which never grew to be worth a shilling until they had done at least two shillings' worth of harm.

The report of the committee was adopted, subject to certain verbal alterations. The memorandum of agreement was then discussed, and one important alteration was made relating to game, which was altered so as to give the tenant the power to take hares from the 1st of November till the 1st of March.

At the meeting of the Cirencester Chamber of Agriculture the subject for discussion was Land Tenure, the opening address being delivered by Mr. T. S. Bazley, after a somewhat tedious fashion. He did not agree with the system of large farms, and believed that if this country was called upon to pass from her course of unparalleled prosperity, and experience the internal trouble of France, the mass of the people would not be found so loyal as if they possessed some interest in the land. On the Continent small holdings were encouraged, and facilities made for their acquirement. No man should hold an immense quantity of land unless he did as much good for the country as the score of yeomen he might displace. The present system of transfer was cumbrous, diffi-

cult, and expensive, and the laws of primogeniture and entail caused the greatest of evils. The completion of the Government survey would facilitate the transfer of land, and he saw no reason why the title to a field should not be as brief as that to a railway share. If they were inclined to be observant, it could be seen that troublesome times might be before them. The labour question, with its strikes and demands, was highly interesting. With republicanism openly avowed, and the International Society an accomplished fact, he asked where, in their time of action, would all these dissatisfied classes turn save to the land; and what would there be to oppose them? Judicious reforms in land tenure might now provide for such possible emergencies.—The Rev. T. Maurice, Mr. G. F. Newmarch, Mr. T. Arkell, Mr. E. Bowly, and others, took part in a brief discussion, expressing as many different opinions upon the points brought under notice; and there being no chance of coming to a decision upon any resolution, the subject was adjourned for further discussion at the next meeting.

At a special meeting of the Warwickshire Chamber of Agriculture, at Warwick, the business was to discuss a report on Land Tenure, which has already appeared in our columns. The first clause, which expressed an opinion that much greater liberty of action in the cultivation of the land should be extended to the tenant, was unanimously adopted without discussion. The second clause dealt with arbitration, and recommended that arbitrators should be appointed at the commencement of every tenancy, and that any vacancy that occurred should be immediately filled up. Mr. M. Phillips did not know how it could be carried out, and Mr. Caldicott thought the clause had better be omitted, but it was carried by a considerable majority. The next clause, which recommended that farm tenancies should be subject to at least twelve months' notice to quit, was unanimously approved; but the fourth, as to the most desirable time for entering upon a farm, gave rise to some discussion. On being put to the vote, there was a majority of five in favour of Lady-day. Permanent improvements by the landlord were dealt with in the fifth clause, which recommended that, before any permanent improvements upon which the tenant was to pay the landlord interest were made, the works and their cost should be specified in writing, and accepted by the landlord and tenant, and the interest should not commence until the quarter day after the completion of the work. This clause was adopted; and also the sixth, recommending that a tenant should have the right to remove any building, structure, or fixture belonging to him, which the landlord declined to purchase, upon the termination of his tenancy, upon his making good all damage. The seventh clause, also adopted, was to the effect that rick, saddle, and fixtures paid for by the tenant on entering, or added with the consent of his landlord during his occupation, should be taken by the landlord at a valuation when the tenant quitted the farm. A resolution from the Henley-in-Arden branch chamber was submitted, to the effect that, the premises having first been put in tenable repair, the tenant should uphold and leave them in the same state, on being allowed materials by the landlord; but that all roofs, bearings, and main timbers should be repaired by the landlord, and all hauling of materials borne by the tenant. It was decided to adopt the first portion of the Henley-in-Arden resolution, omitting all after the word "landlord." Unexhausted improvements, dealt with in the 9th clause of the report, gave rise to discussion, not as to the principle that an outgoing tenant ought to be compensated for unexhausted improvements, but as to the mode in which it should be estimated. The following resolution was finally adopted: "We recommend that, at the termination of the tenancy, a tenant should be paid for unexhausted improvements. Schedule A is appended, indicating some of the improvements for which payment should be made." The items in the schedule included guano, bones, superphosphate, ground bones, bone dust, lime, clay, and marling, night soil, and town manure, applied to different kinds of land; oil cake, cotton cake, and linseed; corn purchased, hay, straw, grass seeds sown on fallow, grass seeds one year old and upwards in excess of a quarter part of the arable land; tillage land left clean and in condition for a crop in excess of two-thirds of the arable land; haulage of materials for new buildings and drain pipes; drainage, labour, and materials, and the same for quickset fences; but labour only for stocking and levelling fences and filling-up pits. The schedule, which was made out to extend over nine years, was

left blank, the necessary information for fixing the amount of compensation not at present being in the possession of the committee or the chamber. The next clause in the report, which simply recommended the adoption of a clearly-defined system of vouchers for proving the quantity and quality of all articles for which compensation was claimed, was formally approved of by the chamber. The exhaustion of a farm by bad management, and what course should be adopted under such circumstances, occupied the remaining three clauses in the report. The first, accompanied by a schedule for indicating exhaustion of the farm value, and recommending that the landlord should be paid by the tenant at the termination of the tenancy, according to this scale, for all exhaustions and all articles there specified removed from the premises, gave rise to some discussion. Here, too, the converse of compensating a tenant for unexhausted improvements was conceded, but it was urged that the schedule appended to this clause would not have been adopted by the committee had it not been expected that the schedule relating to compensation for unexhausted improvements would have been agreed to by the Chamber. After a variety of courses had been suggested, the clause was adopted, with the addition that the landlord should be compensated, at the end of a tenancy, according to the scale in the schedule, when finally completed and approved of at a subsequent special meeting of the Chamber. The next clause was adopted. It expressed an opinion that all amounts owing for exhaustion or improvement of a farm, and all valuations, should be settled between landlord and outgoing tenant, and that all matters relating to a new tenancy should be arranged by the landlord and incoming tenant. The final clause dealt with the question of the liability of a tenant to quit for bad farming; but it was withdrawn, a general fear being expressed that it would be liable to be misunderstood. The schedule indicating the amount to be charged to off-going tenants for produce sold off the farm extended over three years, and embraced hay, clover, trifolium, straw, vetches, turnips, swedes, mangolds, kohlrabi, carrots, potatoes, cabbages, flax; but, like the schedule relating to unexhausted improvements, the proposed charges for each description of produce sold off the land were left blank.

SUPPOSED POISONING OF PIGS BY CONVULVULUS.

That pretty member of the vegetable kingdom, the wild convolvulus (commonly called "laplove"), which, when it extensively prevails, is such a pest to the gardeners, appears to have caused the death of several pigs, the property of Mr. J. Hellaby, of Hogshill, near Tamworth; and as such a case of poisoning is to me quite new, I send you a short history of it, thinking that it may be interesting to the readers of *The Veterinarian*. My attention was first called to the animals on the 10th of August, when I received a message from Mr. Hellaby, asking me to come at once to see some pigs that were dying in a peculiar way. On my arrival I found that six pigs, out of a lot of twenty, three months old, had died since the previous evening. I should state that Mr. Hellaby is a large farmer, keeping a number of cows for cheesemaking, and that the pigs in question were fed principally on the "whey," and consequently did not, as a rule, get any green food. This circumstance will probably account for their having eaten the convolvulus, because generally animals appear to have a great objection to it. Without knowing that the pigs had had anything to eat besides a little barley meal mixed with "whey," I proceeded to make a *post-mortem* examination of one of the last which had died, and on opening the abdomen I found a considerable quantity of serous effusion existing in the cavity; the intestines were empty, with the exception of a very little liquid and gaseous matter, but the stomach, to my surprise, was full. On opening this organ I found that it contained a large quantity of green food of a very peculiar character and very badly masticated. There were a few petechial spots on the villous coat of the stomach; but all the other viscera, both of the abdomen and thorax, were perfectly healthy. I also made a *post-mortem* examination of three other pigs, which entirely corresponded with the first, excepting in the amount of effusion into the abdominal cavity. The question then arose, What was the green food contained in the stomach? After many inquiries I found that on the 8th instant two men had been digging up potatoes in the garden, the tops of which

were covered with and made a perfect mat by the turning of the "laplove" around them, and that these potato-tops, with the "laplove," were in the evening thrown into the pig-sty containing the pigs in question. The animals not being accustomed to green food had, notwithstanding their natural aversion to the convolvulus, eaten it, as I found pieces of the stems from six to eight inches long in the stomach. The only symptoms said to be exhibited, and these did not show themselves long before death, were refusal of food, hanging down the head, a sleepy or drowsy appearance, and, in one or two cases, attempts at vomiting. To the remaining fifteen pigs I administered Pulv. Jalapæ 1 drachms each, in their food, but on the 11th instant I found on my visit that four others had

died. A *post-mortem* examination of one which had just died was made, the result of which was the same, excepting that a little of the green food had passed into the duodenum; and on examining the brain, which I had not done in the previous cases, I found this organ highly congested. On the 12th inst. I again saw the animals, and was pleased to find that the medicine had acted, and that the remaining eleven were apparently all doing well. It would be interesting to know if there are any previous records of cases of poisoning by the common convolvulus; and if it is known, what effect the plant has on the animal economy. The general appearances in this case would lead to the supposition that it possesses narcotic principles.—Mr. H. OLIVER, V.S., in *The Veterinarian*.

CHALK.

At one of the sittings of the British Association,

Dr. CARPENTER, the President, said: Some of my friends were good enough to express to me their disappointment that I had not said anything in my address with regard to my own researches—researches in which for the last four years I have been engaged in the investigation of the physical condition of the deep sea. The reason I avoided it was simply because I have had other occasions of saying out all that I had to say upon this subject, and I did not think it was quite the thing for the British Association to cook up as it were an old dinner and serve it again before them. On the other hand I had certain things which it had been in my mind for many years to say out, and which I wished for an opportunity of saying out, and I have had since I delivered that address the very great satisfaction of believing that what I said on that occasion struck a keynote that will give rise to a good deal of discussion, and that may have a favourable influence upon the course of thought hereafter. If I have succeeded in doing that in any way, it was the highest object that I had. But in addressing you to-night I am going to bring before you some matters in which I have myself been investigator. Though I shall have to speak of myself, it will be in connection with two most valuable colleagues—Professor Wyvill Thomson, who is about to take charge of the magnificent circumnavigation scientific exploration which our Government is now about to send out, and my friend Mr. G. Jefferys, who has also given valuable assistance in these researches. You all know what chalk is. I need not tell you Brighton men what chalk is, that is to say, I need not tell you what it looks like, but I shall have to tell you what it is. If I were to say to you, "Do you know what chalk is?" "Oh, of course we do! Don't you suppose we know a piece of chalk when we see it?" But then I think I can tell you a little about this chalk. In the first place where do you see it? You see it forming cliffs on your coast; you find it forming downs in your interior; you find it wherever there is a little removal of the surface grass; you find plenty of chalk-pits in various parts of the ridges of your downs. Where there is an exposure of the cliff, you will see, if you observe, that there are certain indications of what we call stratification, that is, that there are regular strata or layers one above another. And these are separated more or less distinctly from each other. Sometimes by distinct lines, and sometimes by lines of flint for example, but you will not see them always horizontal: sometimes they are inclined, and sometimes vertical, but they were all horizontal ones. These are the lines which intimate the successive depositions that took place at the bottom of the deep sea; for there is no question now but that the whole of the chalk formation of this part of England (which you see at Dover and Folkestone higher than in this neighbourhood, and at Allum Bay and the Needles) were once at the bottom of the sea. Some of these layers were horizontal, and some of them tilting up; but it would carry us too far if I were to lead you to consider the causes for this tilting up. I want you to understand that these layers of chalk one above another indicate their successive ages. What position does this chalk occupy with regard to the other strata, to the great series of stratified rock which geologists tell you of. It is a comparatively new formation (that is comparatively). The general series of stratified rocks were first studied in England, as it happens, by a most fortunate thing for science that, in Great

Britain, we have a sort of comprehensive pocket edition of the great series of stratified rocks. Beginning in Scotland and Cumberland and North Wales we have the oldest of these rocks; then, in the middle of Wales, we have those rocks called the Silurian system by Sir Roderick Murchison. In the Midland counties and the West of England, in Shropshire and Devonshire, we have the Devonian in the Silurian, all of them inclined, all of them shelving towards the east. And then you have that great and most important formation, the carboniferous limestone, under which the coal-basin lies. Then comes the end of the series; all these lie more or less regularly on one another; and then again we find animal forms passing from one another. This series we call the Palæozoic, which is a Greek compound meaning ancient life. We come to the end of that to a great break; and I wish you to understand that the break occurs in this country, in America, and in every part of the continent of Europe. But it does not follow that it occurs everywhere else; but we find an apparent great break in the series being marked by this in the next strata, where we find animals at all. The fossils of the new red sandstone are rather scanty, but there is the beginning of a new set of types. It generally lies unconformably with two different degrees of slope, and that makes great changes between the mountain limestone and the magnesian limestone. We do not use the term primary now for the old period, because that applies to a still older set; but the secondary is a term still in use, and we sometimes call it the Mesozoic, or middle-life period. Then we have the lias; the formation of the middle counties, and Dorsetshire and Bristol. There is a band of lias crossing the middle of England. Then we have the oolite, which gives us our Bath stone and Portland stone. Then we come to the greensand and the chalk. The chalk is the last of that strata. There is this very beautiful type of life, the *Pantacherus*. Mr. Willett has a beautiful specimen in his collection, which I am happy to hear will henceforth belong to Brighton. It passes up from the lias into the chalk. Then there is a similar great break to that at the end of the Palæozoic series before what are called the tertiary. These deposits generally lie unconformably upon the chalk, and the types of life are mostly new. They cannot be traced distinctly from the chalk. There seems to have been a dying out of the animals of the chalk, and we begin with a new set of the animals of the tertiary strata. It is very curious that both London and Paris are situated upon the great bases of chalk of a subsequent formation, some of them fresh water and some of them local deposit. Now the clay in our own area in the neighbourhood of London—that stiff clay which lies immediately over the chalk—is the local representative in that area of a very different formation in the South of Europe, namely, that great limestone which makes hills and even mountains in some places, and which runs along both the South of Europe and the North of Africa, and into India. The London clay was formed where clay was plentiful. There were no means of determining whether it is nummulitic, but we know it is of the same period, because we find in it nummulites representing the great nummulitic series. It will be seen, on examining a specimen of nummulitic limestone, that it is a chambered shell, and divided into an immense number of partitions. It is of this nummulitic limestone that the pyramids of Egypt are built. I had the pleasure of visiting the pyramids last autumn, and brought home a beautiful

specimen of this limestone. I will now just give a general sketch of the position of the chalk. It is the highest of the secondary series, and it is usually considered that there is a great gap between the chalk and tertiary formations. Every geologist who is interested in the progress of modern science knows that, more and more, as we examine it carefully and minutely, there are in this formation great gaps, but if we find a gap here, there is a continuity there. A gap is caused by the formation being covered by sea: it remains here for ages, and, therefore, when it sinks, a fresh deposit takes place, but this deposit represents altogether different conditions. But then, during that period, deposits take place elsewhere. In Russia there are immense areas covered with new red sandstone. I speak under correction, because I do not profess to be a geologist, but merely a zoologist, when I say this, but I believe large areas in Russia have never been under water since the old red sandstone deposits. Supposing they were to sink a fresh deposit it would cause an enormous gap. Now, you see it is entirely a question as to whether a particular area has been above the sea or not, and I believe all the modern geologists are now coming to the conclusion that if there is an interruption in one place there is a continuity in another. Only two days ago I had the pleasure of a conversation with one of the most distinguished French geologists upon this very point, and I said, "It is my opinion that if there is an interruption here there is a continuity there." He said, "I am entirely in accordance with you," and he came to the conclusion that where the interruption seems the greatest it is bridged over by what we have found, or what we shall hereafter find in some other part. I will give you an illustration. This is not a proved fact yet, but it will show you the kind of knowledge that we may get. I dare say many of you have heard with great regret that the health of Professor Huxley broke down at the beginning of the present year. He was obliged to go to Egypt to recruit it, and he went up the Nile a great deal farther than I did. I asked him, "Did you follow up the curious nummulitic limestone?" "Yes," he said, "and as far as I could see, it rested conformably upon the chalk." Now in the South of Europe and here, the London clay does not lie conformably on the chalk, nor does the nummulitic limestone of the South of Europe generally. Now we come back to the question, What is chalk? Chalk is an aggregation of either very minute shells or the remains of very minute shells, which we call globigerinæ. Hundreds of them would only weigh a grain. What is the nature of the animal? It is a little lump, or rather a series of lumps of jelly, with no mouth, no stomach, no nothing, except that it can send out long threads, the minuteness of which is something hardly conceivable to you. They are not the ten-thousandth of an inch in diameter. They go out in clusters. They diffuse themselves through the water, lay hold of particles still finer than themselves, and they draw these particles back. There is a continuous restless movement. I have sometimes described these as a sort of animated spider's web. It is always sending out, and some of these threads and other threads are being drawn into it, and in this manner, without any distinct mouth or stomach, the nutritant particles are constantly being drawn in, and in this way the animal is supplied. Now, when I tell you that this is the greatest and most extensive—no doubt of it, there is a greater quantity of this life at present existing than of all other kinds of life put together—you will see what an important part they play in nature. The whole bottom of the Atlantic, except where cold currents come down, is covered with these animals and masses of decayed and broken shells. There is so much in the Atlantic, that I cannot pretend to form an idea of how much there can be, when I tell you that in dredging the Atlantic at one mile in depth we brought up nearly half-a-ton at one time, and at three miles' depth we brought up one-and-a-half hundred-weight, besides our three miles of line and a heavy dredge. I shall give you a little history of this remarkable inquiry. Some years ago my friend Professor Williamson, of Manchester, had an opportunity of examining some mud brought up from the Levant, and he found by the aid of the microscope that there were a large number of these organisms there. These all belong to the same general group, and are called annifera, which means many-holed; and as these shells are filled with small holes, you will see that this name is applicable to them. These holes are pores (as you see in the diagrams). All these shells are composed of carbonate of

lime; and now you see why geologists believed that lime, which is found in limestone rocks at one time or another, formed parts of this animal, which has the power to draw lime from the water, and then pour it out again in the form of shells. Here we have this mass of chalk, which has all formed part of these globigerinæ, which have drawn into themselves the lime from the sea-water, and exuded it from their shells, just as shrimps or lobsters and oysters. All these have lime. Oysters form layer after layer. The lobster forms a new shell. Some of you know what are called "crabs' eyes" in the stomach, which are little accumulations of lime stored up against the time when the crab wants to make a new shell. Then these disappear from the stomach. I give you this illustration to show you how lime passes from sea-water into shells. We have long known that chalk was made up of this, and deposited in the deep sea. There are certain minute particles which I won't speak of, because we do not know the meaning of them; but we find certain other curious particles which will afford geologists study for a good while, and these we find in our chalk mud. Owing to my not having made the request sufficiently early, I am afraid I shall not be able to open this case; but I have here two lumps which are the dried mud which we brought up from the bottom of the Atlantic, and not one of you would know these from pieces of chalk, except that they are a little greyer and they have a little more sand. But the important point is that those coprolites in our chalk are precisely the same as those which are found in the old chalk itself. There is therefore a precise correspondence between the mud which we have brought up from one mile and two and three miles from the bed of the Atlantic and the whole of those cliffs. Now as to animal life. We have found a great number of types most distinctly characteristic of the cretaceous period. The most remarkable we met with—it was a great prize—was a wonderful sponge, of which I have a drawing. Now I will just mention to you the fact, as I think it may interest you, that I have been knocking about the North Sea making some deep-sea explorations. Our first vessel was not suited for our purpose: it was built, perhaps, in the year One. It was a most antiquated steamer, being the first that was built for her Majesty's service in the year 1825. We had very rough weather, and for several days we were knocking about, doing a little work now and then. But one day we had a most successful dredge, and I rather glory in it because it was done on a Sunday. I glory in it because it was a study of one of the most important and most wonderful of the works of Nature and of the works of the Creator. After several days of knocking about we had a fine Sunday. I said to the captain that I was very unwilling to work the men on a Sunday, but that we must not miss the opportunity, for it was a good and a holy work to do. I say a reward was given us. The discovery of this was, to all scientific men, one of the most remarkable that has been made. Many of you have seen the wonderful and beautiful works of Mr. Gould, the ornithologist, who went to Australia, and expended £8,000 in his visit and in the production of his work; and when he saw this specimen he said, "Dr. Carpenter, I envy you. If I only found such an interesting specimen, it would have been a reward to me for all my toil and expense." You may suppose, therefore, if this excites such an interest among those who are not of my own line of inquiry that it must have created feelings of intense pride in my breast. This specimen is of great interest in itself, and it is one of a type of skeleton. The skeleton of the ordinary sponge is horny, and is useful because it has no flint in its composition. It has needles in it which will run into your hands, but in this particular type of sponge the skeleton is composed of flint. Now, the great interest of this is that it is a new specimen of a most remarkable group of sponges. This sponge represents the whole type of chalk fossils. Professor Huxley one day came to my house to see it; he knelt down at the table to look at it, and, turning to his wife, said, "Now, do not speak; this surpasses the love of woman." Last Saturday I was on Lewes Downs, on Mount Harry, and I was asked to say a few words about the chalk. I just adverted to this, and my friend Mr. Crosskey, a very able geologist, who was born and brought up at Lewes, at once said, "Why, the whole of this hill is full of ventriculites. I have got them over and over again in the chalk in this hill." Now, I think you will understand what a point of extreme interest this was to us. Here we found the type of the old ventriculites, which was supposed to be extinct, still going on in the

deep sea, and not only the sponge, but a great number of other animals; and the more we have examined them the more curiously they correspond to the old chalk forms. One of the last we got was a most singular specimen of the urchin tribe. You know the globular form of the common sea egg, but this most singular specimen, instead of being like a box shell, was like chain mail, a number of separate pieces, all flexible; and it flattened itself out when laid on the hand, and I said to my friend, Mr. Wyvil Thomson, who is a little heavy sterner, "This looks as if you had sat upon it." One or two imperfect specimens had previously been found, and may be seen in the British Museum, but here we had the animal actually existing at the present time. I will not descant further upon this, but will just go, in the last place, to the general question of what this means. Now, the credit of the suggestion is entirely due to Mr. Wyvil Thomson—but it devolved upon me to publish it, as I was the reporter of the expedition, and I entirely fathered it—that really there has been no cessation in the production of chalk from the old cretaceous period to the present time. Perhaps the form in which we put it out was open to a little exception. We said that we might be considered to be still living in the cretaceous epoch. Very eminent men, such as the late Sir Roderick Murchison and Sir Charles Lyell, have taken exception to that statement, and perhaps not unreasonably, but it all depends upon what you mean by the words "cretaceous epoch." Sir Charles Lyell says the meaning of the words is that period which was terminated by the disappearance of a great number of types of animal life that you do not find in that chalk. Where, he asks, are the chambered cephalopods, where are the fishes that were characteristic of the old chalk? Do you find any other? The shells of the nautilus type, the animals of the cuttle-fish kind? Well, we hide our diminished heads and say, Certainly we do not find them, but still we think that the evidence favours the actual continuity, that there has never been a break or cessation, and the ground we go upon is this, that during the whole of the tertiary period there is no evidence in this north-western portion of Europe, nor is there any evidence on the other side on the corresponding latitude that the bed of the Atlantic has ever gone up more than about 2,000 feet. Now, what is 2,000 feet to 15,000 feet? Why it only leaves you 13,000 feet instead of 15,000 feet. We find tertiary shells from 1,500 feet to 2,000 feet on Welsh mountains and elsewhere. There is evidence that the land has been lifted up 2,000 feet, or near it, in the tertiary period, but there is no evidence that it has been lifted more, and, if not, the bed of the Atlantic must have been the bed of the Atlantic from the time of the commencement of the formation of the tertiary strata. We have every reason, therefore, to believe that our modern chalk formation goes back to the commencement of the formation of the tertiary strata. Now, may not we go a little farther? Mr. Darwin taught us first that there are great areas in the Pacific ocean at the present time of elevation and of subsidence; that there are parts where by the condition of the coral we can surely assert that the bed of the ocean is slowly, slowly sinking down, and that there are other parts in which we can as surely say that the bed of the ocean is as gradually rising. Very well: now I apply that doctrine to this formation of chalk. I believe that at the time when the area of Europe and Britain, and what was formerly chalk lying at the bottom of the deep sea that then occupied a great part of Europe, had been formed, when the elevation gradually lifted it up above the sea, the bed of the Atlantic was going down, and that the chalk animals migrated from what was then the old chalk sea of Europe into the new chalk sea of the Atlantic; that certain species that would bear the migration went along, and others that would not bear it did not go, and died out. But now, then, comes my friend, Mr. Prestwich, the late President of the Geological Society, who, in his presidential address to that Society last year, adopts that view, and gives us the rationale, and a most beautiful rationale I think you will consider it. Mr. Prestwich, on other grounds, quite irrespective of any hypothesis of ours, believes that the old chalk sea of central Europe was a warm sea, that it did not communicate with the Polar Sea. He believes that at the end of the chalk period a communication was opened between the Polar Sea and the sea of central Europe; that that let in a great quantity of Polar water; that the temperature of the old chalk sea was considerably reduced; and that the reduction of temperature killed off fishes and these higher molluscs, but left us those lower forms which could survive the reduction

of temperature. I think you will say this is one of the most beautiful of geological speculations (it is no more than a speculation) ever put before the world. In the green sand, which is all siliceous composed of silicious minerals, you find these little particles. Professor Aaronberg, who is one of the greatest microscopic discoverers, has shown that the green-sand which occurs in the geologic period contains abundant internal casts of *Amersifera*, and I can assign to each one of those on the diagrams to one or other of the order named by Professor Aaronberg. I do not say that they were all formed in that way, but their is evidence that they were of amorphous life of that period. What we now know to be chalk once, does not retain its present condition as chalk. In the cliffs of the Giant's Causeway in Ireland, you will find what we know to be chalk by the series of its strata, &c., we find converted into white crystallised marble, and this marble was once animal life, as chalk was; and we know it was so by the course of interpretation which geologists are accustomed to employ. There we find great masses of carboniferous limestone which forms the bed on which the coal measures are deposited; and there we also find coral reefs, and other beds which geologists, like Phillips, have concluded to be deep-sea beds. I believe it will prove that these beds were formed like chalk and converted to the condition they at present are by the subsequent process of metamorphism. I must now speak of the newest of the limestone formations—the lowest stratified series now known as the Laurentian, and which is abundantly developed in all the countries of Europe. In this series there has been found to be serpentine limestone, composed of layers of lime and serpentine. Professors Lowman and Davidson have been enabled to decide that these serpentine layers are of organic structure like that of the internal casts found in the green-sand. Sir Roderick Murchison had been enabled to make out that the Laurentian series in Canada is 90,000 feet thick, and the azoic is at the bottom of that, and just you think what that 90,000 feet represents. Now you will see, ladies and gentlemen, that we naturalists and geologists do not let astronomers have it all their own way. You hear about the immense lapse of ages that must have existed before we got the light of Sirius, and that if Sirius were extinguished now it might be some millions or billions of years before we should see it again. I believe that these inquiries carry us far to the geological time backwards, as the inquiries of the astronomers carry them back in distance and time in their way. There is something romantic in this. You know it has been said that reason carries us where imagination scarcely dares to follow. The spectroscope is the greatest romance, and goes beyond all the beyonds, if I may use the expression. But I think those matters which have been placed before you to-night are not altogether behind them in interest, and that they will have your thoughtful consideration.

THE TEXAS CATTLE FEVER.

I wish to call the attention of the cattle-feeders of this valley to the following cases of the so-called "Texas fever." I am convinced that I have found the cause. Whether I am right, remains to be seen. I had 200 Texas cattle put on pasture about the last of June. They were shipped August 20. They had 400 acres, consisting of 160 acres blue grass, the balance in timothy. A short time after they left water got scarce with the native stock, horses, and mules. The foreman thought there would be no danger in driving this stock to a pond in the pasture mentioned, as there had not been a sick animal on the farm. But in a very few days a fine Durham cow died, then another and another, with several more very sick. I was sent for in great haste, and on arrival found a fine bull down. He was cold all over, and I could not detect the pulse. He was discharging matter from his mouth which looked like the dregs of a coffee boiler, mixed with portions of the cud, mucus, &c. I had no magnifying glass at hand to detect really what it was. His tongue was all nearly black. There were small spots of inflammation all over the buccal membrane, as far as visible. I at once gave him one pound of Epsom salts and one ounce of sulphate of iron, dissolved in a pitcher of water. He took it very kindly. In two hours his tongue began to clean, and in six hours at least one inch of it was cleaned. I gave the medicine at one p.m., and in the morning he drank freely and began to eat. His urine was copious and normal: his dung, from being black and very hard, was nearly normal. By noon he went

out to pasture, and at two o'clock he was chewing his cud. The balance of the stock got plenty of salt and some green corn, which operated as physic. Now for the horses. They went to the same pond. The grown horses had ticks from their breasts to half-way up their thighs; the one and two-year-olds, half-way up their sides; and the foals, up to their ears. The ticks seemed to scatter from centres, where hundreds of very small ones were clustered together, and very much resembled a cluster of bees when about to hive. There were thousands of them on the larger horses. To get them off, we drove the horses into the barnyard, and then took case knives and scraped the larger ones off. The blood ran in streams from some of the horses. The working teams did not have one on that day: but the next morning, after being driven through the yard, they had hundreds up the legs and the inside of the thighs. I then examined the milch cows and the calves that were driven through the yard, and found them covered in the same manner as the horses. Hundreds of them, that were difficult to see with the naked eye, had attained their full size and were dropping off in the short space of fourteen or fifteen hours. My opinion is this: The Texas cattle deposited the ticks, and the native cattle got them by eating ragweeds and other plants that the Texas cattle rejected; and they attached themselves to the mucous membrane all the way down the throat, causing so great an irritation and fever as to produce death. I was not able to examine any of them in time; but the man who skinned and opened them said there were red patches very much like the places where the bunches of living ticks were on the horses. I think also that the large horses got them on their breasts, the yearlings a little higher, and the foals up to their ears, which would be about the tops of the ragweeds, when driven to water. I examined nearly one hundred horses in the adjoining pastures, and did not find a single tick. These same

cattle stopped one night on the way from the farm to be shipped, and the result was the death of fourteen fine cattle. These Texas cattle came by the way of the Nation, and are said to have got the ticks there. Two other pastures on another farm have 130 Texas and 170 natives respectively. They have broken the fence several times by fighting since the 1st of July, but so far no signs of sickness. I hear of Texas fever in several localities; but I very much doubt it, as we have had an epizootic *asthenic hæmaturæ* among the milch cows of this city, which must not be confounded with the Texas fever. And as every disease the pig dies of is called cholera, everything that cattle die of is called Texas fever. The only similarity in the diseases is that both produce death in a short time. Fully five hundred cows have died from the disease I mentioned before. My object in giving the salts is to open the manlyus where the food becomes impacted, and the iron to kill all internal parasites as quick as possible. I wish, if any man should lose stock by following Texas cattle, that he would make an immediate examination, and let the country know the facts. It is held by a great many farmers out west that some Texas cattle will not cause sickness, while others do. In severe cases I would repeat the dose in ten or twelve hours, and a reduced dose in twenty-four or thirty hours, or until the bowels act freely. The treatment should be prompt. A man to hold the patient by the nose and horn, and a boy to hold the left cheek like a pouch, and a large bottle are all that is necessary. If it could be had, lager beer, warmed, would be an excellent vehicle to give it in. In the absence of the iron (which every farmer should keep), sulphuric acid will be very good to give with the salts. The contents of the neck and first stomach, with their mucous membrane, should be carefully washed, when the tick question can be settled.—JAMES HARKNESS, of Missouri, in *American Country Gentleman*.

BOROUGHBRIDGE AGRICULTURAL ASSOCIATION.

FARM LABOUR.

At the annual meeting Sir G. O. Wombwell, Bart., was elected President of the Society for the ensuing year, and Mr. T. Scott reappointed Vice-president and Secretary. After dinner, the Rev. R. D. OWEN, of Boroughbridge, read the following paper on Farm Labour, its Relations between Employer and Employed:

On this subject there is one leading feature which has been, is, and for a time possibly may be of much general importance, and certainly calls for careful consideration on the part of those who are employers of labour. And I am very grieved that such is the fact, since in my judgment strikes have caused great misery to many families, and much damage to the prosperity of the country at large. Strikes are to the front—how best can the blow be averted? One object of this paper is to urge that the evils will be less as identity of interest is appreciated, and kindness of feeling maintained between the employers and employed. I take not landlords into present consideration, not from any disrespect to the class, but because I hold the cry, "If landlords lower rents, labourers will have more wages, and the work is done, there will be all content," to be fallacious, if not unreasonable and unjust. Many landowners farm their own land. Rents are easy on the large estates. The highest-rented lands are those which are held by small proprietors merely as an investment. And the return for investment in land at the most is $3\frac{1}{2}$ or 4 per cent. To what do we owe the present fact of strikes? Some will answer, "To the development of natural energies fostered by legislation;" others, "To the spouting of those who, disliking manual labour, but possessed by the evil spirit of a fluent tongue, live if not fatten on their pay as delegates, and cherish discontent among others, that their paymasters, the strike unions, may be flush of funds." There is the tall-talking but numerically small organization, The International Society, for the complete emancipation of the working man—a society which already is as a house divided against itself, one-half endeavouring to subvert by revolution all existing dynasties, the others very simple if quite honest in its proposed endeavour to establish what is called a demo-

cracy of freedom, whereby the race of masters is to be abolished by all men being made serfs. A Commune elected by the people is to be subservient to the people, and in the control of the people, through the government of the Commune, is to be all the land and all the capital of the world—*i. e.*, each apportioned district is to have its commune, and in that district all are to be equal and free, no one to be individually possessed of either a pound of capital or a yard of land. To my mind, dark is the future of that country in which the minds of the great mass are imbued with this false, impracticable communistic scheme. At present, amongst ourselves—*i. e.*, in England—the directly-urged claim is for a higher wage, or, again, for a division of the profits earned. But in the many speeches of the many delegates of the many strike unions there is continually cropping up the indirect advancement of the communistic scheme. But for one origin of strikes we may, I think, ascend from the depths of the International Society, and its affiliated branches, to more stern matter of fact. I do not think that, as a nation, we are over impressed by a spirit of godliness, nor over burdened by the scruples of honesty. We possibly are "too clever by half." Of some strikers it has been said that they have cut their own throats by their own sharpness, and some I fear are now feeling the smart of their self-inflicted wound; but, however this may be, I am of opinion that in one degree we, as a nation, are suffering because of our nation's wealth. The trade of our country has so increased that where twenty years ago a manufacturer employed ten artisans, he now employs twenty, and where forty years ago there was one master, there are now twenty. Each master wants more assistants as his trade increases. Two or more masters are after one man. The supply of labour has not been equal to the demand. In our manufacturing towns this has been most experienced, and the result has been, as the census returns show, a migration from the country villages to the manufacturing towns; and in return for our agricultural labourers we receive from the unions of the skilled artisans of the town the example and the fact of strikes. And in the common course

of things it was naturally to be expected that, since strikes have been for so long so frequent and apparently so successful amongst the skilled artisans, the agricultural labourer should think the time was come for him to strike a little on his own account, and, in some instances, very possibly circumstances fully justified the combinations formed. Moreover, the fact stands that as money becomes cheaper, each article of produce is enhanced in price. Each of these named causes has its importance in strikes, and each one should be considered by the employer in his relations with employed. A fair day's work deserves a fair day's wage; wages should be proportioned to the real profits earned. The communistic theory is a most taking one to the poor man's mind; he needs to have the fallacy explained to him. As we are prosperous we should impart, not as the miser, hoard, nor as the rich man, simply spend on self. The interests of individuals, or of a class, suffer when by them consideration of others is ignored. When we hear of farm labourers striking for wages just as the corn is ready for harvest, or, again, of the employer letting out his work at starvation prices, the adage comes to our mind, "It is the coward who strikes a man when he is down," and we are more than even satisfied that there can be no prosperity or happiness, or content, where employers or employed watch for and take advantage of the other's weakness, or necessities, or distress. For right being and right doing, the real identity of interest between employers and employed must be practically acknowledged by both sides. Of neither capital nor labour can it be said that either is independent of the other. There must be hand work, as there must be head work, but for happy success there must be both the true working Christian heart, and we must not be content to merely accept these positions according to the rule of political economy, or, still more, according to the requirements of Divine rule. What is accepted in theory must be evidenced in practice. The time present and the day coming (not possibly so very distant) require such practice, if, as a people, we would have content. In a nation's commercial prosperity there is a continually recurring flow and ebb. With us, as many think, the tide has already passed its height. Notwithstanding the six or seven millions of surplus in imperial revenue, there is at present in the commercial world much mistrust and fear. With depression comes privation; and privation means in the present day more suffering than in the days of old. What in our fathers' days were considered luxuries, have by use become necessities, and to experience loss of them would be inconvenient to say the least. To all, especially to those who, as the more educated, are able to take a wider, broader view of events, and to forecast, while the actual present is alone before the less informed in mind, I say, "Bear and forbear." If the supply of labour does not at the present equal the demand, we should remember that the tables are ever turning. The tendency of mankind is to increase beyond the demand for labour. But, on higher grounds, I say, "Bear and forbear." And I believe that forbearance on the part of the employers will be well repaid. In the minds of the great mass of our labourers there is a strong sense of what is kind and just and true and good. And though much time—too long a time as I think—has been taken to open the workmen's eyes to the selfishness of the wandering spouters, yet I think the day of such agitators is waning; Hodge will connect his payment to the strike union with the maintenance of mere political agitators. He will fail to understand how he can be at once translated into elysium, if only he will send his children to a secular, rate-supported school; but it will dawn upon him that much of the speeches he listens to savour greatly of mere political agitation, and is proposed to more further the supposed interests of a sect or party than of himself, his wife, and child. If it will not pay to be an itinerant spouting delegate we shall have more spirit of content in the country—there will be fewer strikes. Moreover, I expect experience will prove that strikes don't pay. Money wealth is the excess of income over expenditure. There can be little satisfaction to the striker when he finds that his gained increase of wage is more than sunk in the increase of his cost in cottage rent, clothing, food, and coals. I strongly hope that ere long the day will return when questions of labour and wages shall be settled between each master and his men without the interference of intruders; but, for such settlement, there must, between employer and employed, be cultivated and maintained a confidence and trust that either will only do to the other that which is just and true and

right. I would urge identity of interest between employer and employed, not such scheme as that proposed by Mr. Speaker Brand, a scheme which for many reasons I hold to be impracticable; but I urge the old scheme of the golden rule—"each to the other being honest, kind, and true." Servants have been idle, dishonest, and ungrateful. Masters have been grinding, hard-hearted oppressors, who have considered and treated their labourers as mere machines. But all servants have not been, nor are they bad. All masters have not been, nor are they tyrants. Surely in old England it cannot yet be required that all relations between employers and employed shall be those of mere commercial enterprise, each getting out of the other the utmost possible, without a care or thought beyond the wages for work or work for wages. To the agricultural labourer I would say do not ungratefully forget the many assistances in kind and in kindness that you and yours have for so long and so regularly received from your employer and his family. Do not be unmindful that often in the winter months work has been as it were made for you that you might not be without your wage. All is not gold that glitters. Higher wages in mere cash-payment does not always represent a real money gain, and to the employers I would say continue, nay, increase, if you may, your consideration for those whose labour you employ. On this principle I would base the chief point of this paper. At the same time there are many details which demand a notice, though now I can only briefly give the heads of some. As far as may be possible, let there be for each labourer a comfortable cottage, a garden, a pig, and a cow. I believe that by such allotment and provision there will be created in the labourer a personal interest in that farm which he helps to cultivate, that his sobriety and industry will be increased, and, consequently, the interests of the employer enhanced. I would strongly urge, let there be no more clearing of an estate of cottages, no more compulsion of a three or four miles' journey for the labourer ere his day's work begins and at its close. And I would ask of you, as employers of farm labour, whether the general interests would not be furthered by the very young men being in your households as yearly servants, rather than as labourers by the week. Such young men of the present day may be untutored, undisciplined, somewhat independent, and more than somewhat of a nuisance in your establishment; but as they will be benefited by your kind, though strict watchfulness and care, shall not you and other employers be afterwards benefited by the better quality of labour which such discipline will effect? And if it be that young men of the period are untutored and untrained, have you not a remedy in your hands for the future by caring that the children of your labourers are well-trained lads in well-conducted schools? Of more piece-work in labour and of payment by results, I presume not to speak. The one strong point I would urge on employers and employed is

Be you to others kind and true,
As you'd have others be to you.

Mr. DENT, M.P., said: From his friend Mr. Owen they had heard a good deal about strikes, but he thought that he ought to have been rather more measured in his remarks on this point than he had been. They must all remember that strikes were the only weapon that working men and labourers had to use, to gain for themselves their legitimate rights, so as to be paid a fair amount of remuneration for their labour. So long as men kept within the due bounds of the law, they were justified in obtaining the best price they could for their work, which was their only marketable commodity. A strike with regard to rural affairs was a far more serious thing than a strike in manufacturing industry, because the farmer is so dependent upon the weather and other circumstances. The state of the season is so important upon a farm that he might say a strike was an interference not only with the farmer's work, but also with God's work and the food of man. There were three classes particularly concerned in the cultivation of the soil, namely, the landowner, the tenant-farmer, and the agricultural labourer. First, as to the landlord. He should endeavour to provide for the labourers upon a farm proper cottage accommodation, and see that they were comfortably housed. One cause of the neglect of this necessary accommodation arose from the evils of the old poor law, which in various districts of England discouraged the building of cottages; and, although great improvements were taking place, the state of things was still very deplorable. The providing of necessary cottage accommodation was a source of much anxiety, trouble, and expense to many landlords. He had his own

views upon the subject, and he must say in his opinion the difficulties under which a large class of landlords had to labour were attributable to the present system of the land laws. Many landowners had not the want of will but the want of means wherewith to provide cottage accommodation for the advantage of the labourers upon their estates. He considered that in some cases cottages should be built upon the farms rather than in the villages, and, although he thought that as a rule it was better for the labourer to be directly under the control of the landowner than under the farmer, yet it might be desirable for the farmer to have cottages for his horsemen, shepherds, and others. Where a certain number of cottages were erected upon a farm, the tenant should be responsible for the rent, and should be bound to let the cottages at a fair and reasonable amount. At this day between the farmer and his men there was a much wider gulf than there was in the days of our fathers and grandfathers, who cultivated a more friendly spirit and more intimate relations and acquaintance than was now the case, a better understanding between the one from whom the work was required, and the other who paid for its performance. Labourers now said that the farmers had become a more luxurious class, and that the distance between them had increased in proportion. He did not think that this was altogether true. It was certain that every class in society had of late years cultivated more luxurious and different habits of living. The farmer was not now nearly so intimate with his servants and labourers as he was in the generations past, and the labourer, too, had risen considerably in the social scale. During a recent visit to Lincolnshire, he had visited the cottages of several agricultural labourers, and he was pleased to find in their dwellings signs of comfort and even of refinement; for there were not only many little articles of ornament, but also pictures of a superior class hung on the walls, very superior to those which were to be found 20 or 30 years ago. He trusted that no spirit of retaliation would be manifested towards the agricultural labourer during the coming winter, for, be it remembered, his was the last class to strike for higher wages. Let it not be said that as butchers' meat was dearer, and that as coals had considerably risen in price, the labourer must justly suffer, when the pinching days of winter come, for the conduct he had pursued in the summer in seeking for higher wages. It would be, in his judgment, exceedingly unwise for the farmers thus to treat their labourers. He would suggest whether yearly engagements might not be capable of conferring advantages on farmers and on labourers, as these would enable them to compel their servants to work for them for twelve months, and not subject them to having demands made upon them for increased wages at particular times of the year, while the labourer would have the certainty of work throughout the year. The best farmed lands in Northumberland were managed under this system. In the north it was customary for a farmer to allow each of his labourers to run a cow upon his farm, and sometimes a shepherd was allowed to keep one or two ewes along with his master's flock. This was constantly done in Northumberland, Roxburghshire, and other counties in Scotland, and it was a system which brought the servant into more intimate fellowship with his master, and made him feel a greater interest in the management of the farm. Let the farmers encourage their servants in this way, and it would tend to their own advantage. In the next place, he considered that every labourer should have his pig for the winter. Great fairs were entertained on the labour question, but there was no necessity for alarm, as it was a question which would ultimately settle itself. Farm labourers would go to the manufacturing towns, Leeds, Bradford, and elsewhere, where they could procure higher wages, 25s. or 24s. per week, but then house rent was dearer, other things cost more money, there were no gardens for them, and they were not so assisted in towns as they were in villages. Let farmers, then, give every reasonable encouragement to their servants to remain with them, rather than give them any cause to depart for the manufacturing districts. He believed, fairly and honestly, that the Yorkshire farmers were inclined to do so. He should like to see more yearly engagements of servants, who should be well-housed and comfortable, have a pig-sty, and when possible a cow at grass in addition. This was the case very frequently on the farms of Sir G. O. Wombwell, Bart., the newly-elected president of the society. As far as task-work and piece-work were concerned, it was a system that required the farmers to be fully conversant with

the nature of the work and its labour value. He was satisfied that the plan was a very good one, and it tended to increase the labourer's pride and estimate of himself, and gave him a better knowledge of what he was capable of doing. The labour question he believed would come to a right settlement at the last, and let them do all in their power to hasten that settlement.

Mr. LOFTHOUSE said that there was a very small supply of young labourers, nine villages out of ten having old labourers. Young men ought to be encouraged, and paid proportionately according to the value of their work, and thus keep them from going into the manufacturing districts.

Mr. SCOTT, the vice-chairman, thought that the great interest taken by the landed proprietors in the education question was sufficient evidence that they sympathised with the labourers, as new schools were built for their children by voluntary subscriptions. He thought also that there was a desire, both on the part of landowners as well as the occupiers, that the labourers should be furnished with proper cottage accommodation. He approved of having cottages for agricultural labourers provided direct from the landlord; but as to yearly engagements he thought that, as a rule, they were almost impracticable. He was in favour of piece-work, as the labourer was then paid according to the amount of work he performed. This system was prohibited by trades unions, they enforcing uniformity of wages; but he had always found that men earned more by piece-work, and they liked it better. The present generation of farmers did not work so much physically and mix with their men as formerly, but they had more head work, and they had to study the best modes of cultivation. He considered that it would be desirable if farmers joined a little more with the labourers at their social gatherings and on other social occasions, as it would be productive of good. As a rule men under 30 were not skilled labourers, a man from 40 to 60 being able to do all kinds of work better than a labourer of 30.

Mr. BENNETT said that the relations between landlords, tenants, and labourers had been interfered with and disturbed through the officious interference of Alderman Carter, M.P., and men of his stamp, who had done more harm than any other class in unsettling the labourer and rendering him discontented. Like the vice-chairman, he preferred older to younger men, they being the best skilled labourers.

Mr. GREEN considered that uniformity of wages was a fallacy. From the experience he had gained by men working in his brickyard last spring, he found that the men earning the highest wages were the cheapest. One man might be dear at 2s. 6d. per day, whilst another was cheap at 5s. They must not be dictated to by trades unions, but pay a man the proper amount due to him for his labour.

Mr. HARLAND remarked that something was said by Mr. Owen about a fair day's work for a fair day's pay. He believed that would satisfy all parties, but of late there had been a disposition evinced contrary to this, because agitators had told workmen that they would be more prosperous if they combined to work short time. He did not think that the nation could afford that loss of labour. At any rate, agriculture could not, because there were only a limited number of days in each year which could be devoted to the various descriptions of work. It appeared to him if ten men did the work of nine, ten families would have to compete for nine families' bread. At a recent meeting in Leeds, a public man (Alderman Carter, M.P.) said the restrictions on the importation of foreign cattle were upheld solely for the benefit of the agriculturist. Subsequent events had proved the fallacy of that opinion. He would have passed by the remark of the hon. member if he had but told his audience that he was one of the colliery proprietors who had lately raised the price of coal so high that it was not only a direct tax on every cottager but on every poor woman who prepared her tea. Coals were now so dear that the poor could scarcely obtain them.

Mr. CALDER was in favour of ample cottage accommodation for labourers upon estates, and also of a pigsty for every man, as well as a cow at grass, for the system worked remarkably well in the north. Yearly engagements, too, answered in every respect.

Mr. WARWICK said that there was a difficulty in hiring men by the year, and when they were obtained in this way farmers were often annoyed with them, and only too ready to get rid of them before the year's end. He approved of piece-work in principle, but he had found it not to answer, because

men hurried through their work in order to get it done in the shortest time, and their labour was executed in a slovenly manner.

Mr. GAUNT referred to the scarcity of skilled labourers, as the best men left the rural districts. When the present

old labourers died away, who was to take their places?

Mr. JACOB SMITH, the chairman, had a good opinion of yearly engagements, and he was in favour of piece-work if he could only get it done, but the men, as a rule, disliked the system.

A T H Y F A R M E R S ' C L U B .

AN "IRISH LEASE."

At the monthly meeting for October, Mr. Robert Anderson in the chair,

Mr. REEVES said at this very moment, I am very sorry to say, there is a "yearly lease" waiting for me to sign. There are eighteen clauses in it, and how is it to be expected of me to understand all those? That is all I can tell you about it.

Rev. Mr. BAGOT: I never heard of a "yearly lease."

Mr. REEVES: That is the heading of it. Would it be right to bring such a matter as that before the Club?

Mr. BAGOT: Certainly.

Mr. REEVES: I imagine I have certain rights to certain improvements, but people tell me if I sign this lease I confiscate my own rights.

Mr. LOW: As a Farmers' Club, we have a right to discuss any question between landlord and tenant, or any question that comes up which concerns agriculture.

Mr. REEVES: It would do more good to discuss a matter of this kind than to be holding the thing in abeyance for a time.

CHAIRMAN: I must remark that any man whose holding is under £50 valuation cannot sign away his Tenant-Right under the act; but I believe any man over £50 valuation can, if he chooses, sign away his rights.

Mr. REEVES: There is not a doubt about this lease. The driver told me he had an agreement for me to sign, and he had fifty-six others. Of course, a person holding a town park can have no claim whatever under the Land Act.

Mr. ROBERTSON: I had an opportunity of reading a copy of the lease Mr. Reeves refers to. There are two clauses in it which deprive the tenant of seeking for compensation under the Land Act. There is another clause in it that the tenant is to be compelled to pay the whole of the county cess, notwithstanding the provisions of the Land Act.

Mr. BAGOT: We are in a different position now to what we were when the land question was first started here. The land question was a political question, but that being got rid of, we are not in the same position at all now. The question Mr. Reeves has started is neither a political nor a religious question. At the time the land question was started it was fairly a political question.

Mr. LOW: It was before Parliament.

Mr. BAGOT: We are not in the same difficulty now.

Mr. LOW: Every question which bears on agricultural interests comes fairly before us.

Mr. BAGOT: I would like to have Mr. Hamilton here to defend the clauses of that lease.

Mr. LOW: If it is Mr. Hamilton Mr. Reeves refers to, I am sure he would be only too anxious to meet the farmers of the district at the Club, and if there is anything wrong to set it right.

Mr. ROBERTSON: Will you give notice for this day month that you will bring forward this matter? I would not like to take Mr. Hamilton behind his back.

Mr. REEVES: I will not. I would not like to put myself in such a position. There is not a doubt about it. It has got publicity enough in this neighbourhood, and it might be better to discuss it now quietly than to have it brought forward at a "sorer time."

Mr. LOW: It is far better to discuss it in a friendly manner.

Mr. BAGOT: Why not have the lease here?

Mr. LOW: My impression is that Mr. Hamilton or the Duke of Leinster want nothing but what is fair between man and man. I think if you give a notice of a fair friendly discussion he might banish from the lease those unfair clauses. I am sure he will be most anxious to meet the wishes of the farmers.

Mr. REEVES: There is not a man on earth I owe more to than his Grace the Duke of Leinster.

Mr. ROBERTSON: There is no family in the land stands higher than the Leinster family, and it would be a great pity if anything was done by means of such a lease as that to alter the feeling with which his grace is regarded by his tenantry. I will tell you the two clauses I would object to if I were a tenant on the Duke of Leinster's estate; the clause depriving the tenant of any right under the Land Act to claim compensation for improvement, and then forcing him, in defiance of the Land Act, to pay the whole of the county rate.

Mr. LOW: About these improvements. There are two or three ways of looking at the point. Picture yourself a landlord and if your tenant goes to make what he considers an improvement, but which you would consider an injury to the estate, I don't think you would be wrong in objecting to such an improvement as that. An improvement ought to be sanctioned first by the landlord, and should be of advantage to the land and the incoming tenant. The improvement that is sanctioned by the landlord or the agent the landlord ought to pay for.

Mr. REEVES: For improvements before the passing of the act the landlord might, with some justice, object to, but since the passing of the act the tenant has a right to compensation for his improvements.

Mr. LOW: Yes, if the tenant is removed or the rent raised.

Mr. REEVES: Precisely.

Mr. LOW thought where it was the practice of a farmer to keep his land in good order, and by his capital, energy, and skill improve the soil, there could be no greater hardship than that he should be compelled to pay 10s. an acre more for it. Nothing stops the progress of the country more than that. They might suppose, for instance, a man had a poor farm at £1 an acre, and by the expenditure of as much capital as would purchase the fee-simple of it, as well as by his industry and skill, made it worth 10s. an acre more, it certainly was a great hardship to increase his rent by that 10s. an acre.

The CHAIRMAN considered the Land Act clearly pointed out what were the improvements for which compensation might fairly be claimed—improvements such as added to the letting value of the farm. He did not see why application should be made either for the landlord's or the agent's consent to make such an improvement as that.

Mr. LOW thought they would have no country if they had no aristocracy; and he thought while the tenant should get what he was justly entitled to, the landlord should have some profit from the increased value of land.

Mr. ROBERTSON did not quite believe in Mr. Low's idea; but that was beside the question. He could mention the case of a farm in the locality which twenty-eight years ago was a barren heath. It was only partly cultivated, and the greater portion of it grew nothing but furze, heath, and weeds. That farm had been improved to a high pitch of excellence. The soil was made to grow crops by the tenant's outlay of his capital and labour; and he understood that tenant was going to be taxed on his improvements to the extent of eight shillings an acre. Now, that was an injustice.

Mr. LOW: That is what I have been stating.

Mr. ROBERTSON: Why should such a man as that be prevented in his lease from claiming compensation for any future improvement?

Mr. LOW: I would like to see the landlords get fair play. Twenty years ago the landlord could live cheaper in every way than he can now. He has to pay more to his servants, and to keep up his establishment. And is the landlord to have no advantage from the increased prices the farmer obtains for the

produce of his land? Sheep and cattle are dearer; barley, wheat, and corn are dearer; the farmer gets the advantage of these high prices. The landlord has to pay dearer for his mutton and for everything required to keep up his establishment. Is he to get no share of the profits as well as the tenant?

Mr. ROBERTSON: All these reasons may be urged on the part of the tenant, who has, in addition, to pay a higher scale for labour.

Mr. BAGOT: You are leaving out of sight the most important point. A man to be a farmer now requires twice as much capital as he required some years ago, and he has to undergo twice the risk. A man taking a farm some years ago with £1,000 capital could not do so now with less than £2,000.

Mr. LOW: But when the landlord has to pay 10d. to 11d. per lb. for mutton.

Mr. BAGOT: And so have the farmers.

Mr. LOW: But they are the growers, the producers.

Mr. BAGOT: If I kill a sheep produced on my farm, that sheep is exactly worth to me as much as I would have to pay the butcher for it.

Mr. LOW: The landlord has a large establishment to keep up, and he is not to get any benefit from the rise of value in land?

Mr. BAGOT: I am not going to say that, or that the land is to stand still. The question here is, will the tenant be allowed nothing for his improvements?

Mr. LOW: Not to allow him anything for his improvements is, no doubt, a great hardship. Take one man having a farm at one side of a hedge, at fifteen shillings an acre, and he is a lazy, idle fellow, who does nothing to improve the soil. There is another man at the other side of the hedge, and by his money, energy, and skill makes his land produce good crops; and because he does that he is to be charged thirty shillings an acre? There is the hardship.

Mr. ROBERTSON: And what we condemn.

CHAIRMAN: What the tenant wants is the protection of the Land Act; and it can be left to arbitration what is an improvement. Then if the landlord and tenant don't come to good terms, the tenant should not be deprived of his privilege and power to sell his interest either to the landlord or any one who offers him the highest price. Therefore, I think it is right and just for us to stand out and not allow ourselves to be "bargained" out of it for nothing. Besides, by this lease a man can't take out a gun to shoot rabbits.

Mr. ROBERTSON: The lease allows the tenant to trap, net, or snare, but not to shoot them.

Mr. LOW: If I understand the game law right, no one can prosecute unless the tenant gives his sanction to the prosecution.

Mr. BAGOT: The game on his farm belongs to the tenant.

Mr. ROBERTSON: I am not sure but this lease is an effort to thwart the tenant. I, for my part, if I were a tenant to his Grace the Duke of Leinster, would certainly object to sign it. The Land Act is a state guarantee to the tenant for certain improvements, for which he must be paid or compensated if he is removed. This lease sets aside that state guarantee. It says to the tenant, "You shall not have the benefit of this act, so far as getting compensation for improvement is concerned."

Mr. LOW: I would not expect his grace to object to compensate for improvement sanctioned by himself or his agent. But what one man might consider improvements, another man might think was anything but an improvement.

CHAIRMAN: You have a court of arbitration to settle that.

Mr. BAGOT: There is the law for the tenant: why should that law be set aside?

Mr. ROBERTSON again asked Mr. Reeves why he give notice to have the question discussed at the next meeting; but Mr. Reeves declined to do so.

Mr. LOW: Would it not be sufficient to state it would be noticed at our next meeting?

Mr. ROBERTSON: My impression is that this discussion will be quite enough. Very likely it will have the desired effect. We are ready as a club to take up any question affecting the farmers of the district. By this lease either side can terminate the lease by six months' notice.

Mr. LOW: No one would sign that.

CHAIRMAN: A good many have signed it.

Mr. BAGOT: As regards the Duke of Leinster and the next two generations of his grace's family, no one need be afraid in-

justice or anything unkind will be done by them; but the fear is that the yearly lease might be adopted by others.

Mr. REEVES: There would be more about it if another than the Duke of Leinster brought it forward. His grace's tenants would sign anything he asked them.

Mr. BAGOT: If we had a copy of this lease to-day we could pass a resolution, and send it to the Duke of Leinster. Calling a meeting especially to discuss it might look like an agitation.

A copy of the lease was here produced.

Mr. BAGOT then read the lease, which contained the usual covenants with regard to mines, fishing, &c., and these were followed by the following clauses, to which exception was taken. 6. That the lessee, his executors, administrators, or assigns, for one year from — to —, and so on from year to year until this demise shall be determined, at the end of the first year or any subsequent year by either party giving to the other six calendar months' previous notice in writing. The tenth clause prohibited the erection of any unsuitable building—a point which, the Club thought, should be settled by arbitration. The 18th and following clauses were as follow: Provided always, and these presents are upon this express condition, that if and whenever any part of the said several rents shall be in arrear for 21 days, whether the same shall have been legally demanded or not, or if and whenever the said lessee, his executors, administrators, or assigns, or any of them shall sell, assign, alien, sublet, or otherwise dispose of or let in con-acre the said lands of the premises, or any part thereof, or in any manner part with the possession of the same, or any part thereof, without such consent in writing as aforesaid, or bequeath the same by will to more than one person, or in any manner divide, or attempt to divide, the same among his or her children, or next of kin, or other person, or be adjudged bankrupt, or become an insolvent debtor or debtors within the meaning of any act of parliament, or shall be taken in execution, or any proceeding shall be taken to sell the same, or any part thereof, by any creditor of the lessee, his executors, administrators, or assigns, or if and whenever there shall be any breach of any of the covenants hereinbefore contained by the said lessee, his executors, administrators, or assigns; then the said lessor, his heirs or assigns, may enter upon any part of the said premises in the name of the whole, and thereupon this demise shall absolutely determine. Provided always, and that as hereby expressly agreed to, the said lessee, his executors, administrators, or assigns, on quitting the holding hereby demised, shall not make any claim for compensation under any of the clauses or provisions of the Landlord and Tenant (Ireland) Act, 1870, in respect of any money or money's worth paid or given by him or them on coming into said holding. And it is further agreed that the said lessee, his executors, administrators, or assigns, will, during this demise, duly pay the entire of the grand jury cess to be assessed in respect of the said demise or any part thereof, and shall not be at liberty to make any deduction in relation thereto out of the said rents under the provision of the Landlord and Tenant (Ireland) Act, 1870, or otherwise howsoever. Provided always, that it shall and may be lawful to and for the said lessee, his executors, administrators, or assigns, to kill rabbits which may be found on said hereby demised premises by means of nets, traps, and digging out, but such leave and licence shall not extend to shooting of same.

Mr. REEVES: Who could learn all that?

Mr. BAGOT repeated the provision in the lease against making any claim for any money or money's worth paid on coming into possession.

Mr. LOW: That only refers to any "fine" you might have given on entering possession. It is not to be reclaimed.

CHAIRMAN: The tenant is otherwise excluded from the benefits of the Land Act.

Mr. ROBERTSON: You are prevented from building.

Mr. BAGOT: "Not to erect any unsuitable building."

Mr. ROBERTSON: Who is to be judge of what is an unsuitable building?

Mr. BAGOT: There is no provision here for arbitration.

Mr. LOW: There ought to be provision for arbitration between landlord and tenant.

Mr. REEVES: If a man of wealth out of this town got possession of my place, and built a little palace on it, that should not be acknowledged as a suitable building.

Mr. LOW: The proper way is to have an understanding between the landlord and tenant before improvements are made;

then if there is any difference let there be reference to a court of arbitration.

Mr. BAGOT: That is a very strong clause; if a tenant is twenty-one days in arrear with his rent he is to be put out.

Mr. Low: That is surely not to be acted upon.

Mr. ROBERTSON: It is there.

Mr. BAGOT: When an agreement of this kind is to be signed, a man should look into it. As I said before, for the next two generations after his grace the tenants need not be afraid. But other landlords might take and copy the Leinster agreement. Men we know nothing about might take it up. That twenty-one days' provision is a great hardship.

Mr. WALPOLE: Except by the Duke of Leinster's tenants, it would not be listened to in any other county.

Mr. BAGOT said another objectionable clause was the six months' notice.

Mr. ROBERTSON asked was it a lease at all or not.

Mr. BAGOT said it was headed "This Indenture" to hold for one year, and so on from year to year, till determined.

Mr. Low: It is a yearly lease.

Mr. ROBERTSON: It attempts to evade the Land Act, which defends the tenant at will.

Mr. BAGOT: I heard some one a while ago say something about £50 valuation. If the holding is over £50 valuation, this lease is in accordance with the Act.

Mr. ROBERTSON: But to men under £50, or tenants at will, the Land Act, I thought, was a lease.

Mr. BAGOT: If that be so, what I heard stated, if the holding is valued under £50, this would not be listened to in a law court. It is waste paper.

Mr. Low: I agree with you.

Mr. REEVES: But when it is over £50 it is not waste paper.

Mr. BAGOT: If the act distinctly states when the holding is valued over £50 an agreement like this may be made, the inference is, no such agreement can be enforced when the value is under £50.

Mr. Low: My impression is, it was written with the view of preventing litigation; but if what was put by Mr. Reeves and Mr. Robertson be correct, it will only lead to litigation.

Mr. BAGOT: My idea would be, as a farmers' club, we ought to submit this to a lawyer and ask his opinion. Then could publish the case and the opinion.

Mr. ROBERTSON: Would we be justified in going that length?

Mr. Low: If we would not be justified in going that length, we are not justified in going into it all. I would be for laying it before an eminent counsel, and have his opinion.

Mr. BAGOT: Mr. Hamilton may be right in point of law.

Mr. WALPOLE: He can't compel the tenants to sign it.

Mr. BAGOT: We are not lawyers; we don't know.

Mr. ROBERTSON: See, in two clauses it distinctly sets aside the Land Act. If it is acted upon it will debar any farmer from selling his interest if he wishes to quit his farm. If I were his tenant, and wanted to get £500 for my interest, I want to know who will give it when it is expressly provided the tenant shall not sell his interest.

CHAIRMAN: And it excludes a man's heirs or his friends in case of a tenant failing. A man's creditors are entirely excluded from taking any benefit out of the tenant's interest in the farm.

Mr. BAGOT: Then the landlord may walk in.

CHAIRMAN: I suffered from signing such covenants as those in Scotland.

Mr. ROBERTSON: It is just coming up to the Scotch system. And see the position of the Scotch tenants under the failure of crops and high rents.

The CHAIRMAN said he would take the voice of the meeting whether they should lay the case before counsel.

Mr. ROBERTSON did not think they ought to do so at the present stage.

Mr. BAGOT suggested they should appoint a committee to confer with Mr. Hamilton.

Mr. REEVES asked would the meeting think well of having no names mentioned as yet in the matter?

Mr. Low said he did not know at first that the Duke of Leinster was referred to, but he would stick to anything that had been said. He did not think that any farmer who farmed the Duke of Leinster's land fairly need ever be afraid of being dealt harshly with. Still, those clauses surprised him very much, coming from such a quarter. It would be a bad prece-

dent for other landlords who do not carry the same good name. As the matter had been discussed, he was for taking counsel's opinion.

Mr. WALPOLE: If a tenant signed it, he would be bound by it.

CHAIRMAN: That is my experience of similar documents.

Mr. BAGOT said no man should bind himself to such penalties unless he was prepared to have them enforced.

Mr. REEVES would not give any man the benefit of the act who "scourged" the land by bad farming, such as taking two white crops in succession.

Mr. BAGOT: Mr. Lawes told us for 20 years he took white crops in succession, and by doing so the tenant will only injure himself, not his landlord.

Mr. ROBERTSON: I would not object to the clause about cropping. There are other parties entitled to consideration in this matter besides the landlord and tenant. The general public are interested, and have a right to see the land of the country put to a proper use.

Mr. BAGOT: No one can object to that.

Mr. Low: I would, on this ground—I don't believe the landlord has a right to dictate to the farmer what he is to do with the land at all under a certain lease. The farmer has a right to do what he likes with the land until five or seven years of the lease remains. Then the landlord has a right to see himself protected, and his land fairly manured, and sown with grass seeds. It is altogether wrong of the landlord to say, "You are not going to do this or that without my approving of it." We all know that seasons change, and that prices vary. Wheat is dear one year, barley is dear the next, and corn the next. The farmer may wish to manure one field this year, and take two white crops off it in succession, and so on with another field. The farmer sows what he thinks will be of most benefit to him each year; but when the termination of his lease is coming round, he should be compelled to have his farm in a proper manner before he leaves it. I object altogether to the landlord binding a man to do this and that exactly as he may fancy.

Mr. REEVES again asked would it not be well to leave out all names?

Mr. Low: In the discussion to-day everything has been carried out in a fair manner. I am not a bit afraid that the Duke of Leinster will not meet his tenants fairly. And if these penal clauses have cropped up, it may have been that they were overlooked. It would be a very great hardship if other landlords took advantage of this lease. I am sure the tenants of his grace who sign it will be as well treated as if they had not signed it. But, at the same time, if there is anything in it which prevents tenants obtaining the benefit of the Land Act, it is a great misfortune.

Mr. ROBERTSON: The best protection a landlord can have is Tenant-Right. If a tenant has Tenant-Right, he has a direct interest to keep his farm in tip-top condition. This lease goes quite contrary to that.

Mr. Low: If a tenant sinks a great deal of capital in manuring his land at the commencement of his tenancy, and it pleased Providence soon to remove him, and his heirs come forward and say to the landlord, "This farm has been put into a good state of cultivation; I will be very glad to be compensated for the improvements, and give up." If the landlord can say, "Oh, no; your predecessor signed an agreement that his heirs were to have no benefit from his improvements," that is very harsh. I may be wrong in my view of the clause, but if I am right, it is a very absurd, harsh clause. If a man is to be deprived from any benefit of improving, it will stop improvements.

Mr. ROBERTSON: It is most objectionable trying to set aside the Land Act; and if that can be set aside, there is no security at all. In whatever way the Land Act is intended to benefit the farmer, he should get the full benefit of that Act.

Mr. WALPOLE: The law will give it.

Mr. Low: Not if he signs it away.

Mr. WALPOLE: No independent tenant will do anything so absurd.

Mr. REEVES: The Duke of Leinster has been so good a landlord, the tenants would sign anything for him.

Mr. WALPOLE: No other county in Ireland would entertain it.

Mr. REEVES: And his grace has always allowed tenants to sell their interest.

The following resolution was then unanimously adopted—

Resolved: That a copy of this resolution be forwarded to his Grace the Duke of Leinster, and Mr. Hamilton, his agent. Resolved: That this club having, as they believe, discussed the provisions of the proposed indenture between his Grace the Duke of Leinster and his yearly tenants in a fair and liberal spirit, most respectfully call his grace's attention to the penal clauses, Nos. 6, 10, and 17, contained in this indenture. No member of the club is afraid that his grace or his heirs would think of enforcing these clauses, but they fear this indenture may be adopted by other landlords in whom they have not the same confidence. The Club also hold that the tenant is entitled to all the benefits of the Landlord and Tenant (Ireland) Act, 1870; but they regret that the 18th and 19th clauses of this indenture attempt to contravene the provisions of the Act.

THE LEINSTER LEASE.

The following is a copy of the lease which the tenants on the Duke of Leinster's estate, whose valuation is £50 or upwards, have been asked to sign:

Clause 1.—This indenture, made the _____ day of _____, one thousand eight hundred and _____, between the Most Noble Augustus Frederick Duke of Leinster, in Ireland, hereinafter called the lessor, of the one part, and _____ of _____ (2) hereinafter called the lessee, of the other part, witnesseth that, in consideration of the rents hereinafter reserved, and of the covenants by the lessee hereinafter contained, the lessor doth hereby (3) demise unto the lessee, his executors, administrators, and assigns, all that part of the lands of _____, situate in the barony of _____ and county of _____, containing _____ acres _____ roods and _____ perches, statute measure, equivalent to _____ acres _____ roods and _____ perches, late Irish plantation measure, or thereabouts, now or lately in the occupation of _____, with the dwelling-house, farm buildings, and appurtenances thereto belonging or usually enjoyed therewith. 4. Except all mines, minerals, coals, quarries of marble, slate, limestone, or other stone, gravel, sand, and brick-earth, and all waters and watercourses, turf, turbary, and bogs, and all timber and other trees, woods, plantations, underwoods and bog timber, which during this demise shall be in or upon the said premises, and reserving to the lessor, his heirs and assigns, and all persons authorised by him or them, liberty of ingress, egress, and regress, with or without horses, carts, carriages, and all other necessary things, into and upon and from the said premises, for all reasonable purposes, and particularly to dig, search for, and work such mines, minerals, coals, quarries, gravel, sand and brick-earth as afore said, and to take and carry away the same and the produce thereof, and also to cleanse, turn and divert such waters and watercourses, and to alter and divert roads, and to fell, lop, prune, cut down, root up and saw all or any of the timber and other trees, woods, plantations, underwoods, and bog timber aforesaid, and to take and carry away the same, and also to plant all sorts of trees on the several banks, hedges, borders, or waste places of the said premises, and to view the condition thereof, and to bring materials thereon, and repair or renew the same, making to the lessee, his executors, administrators, or assigns, reasonable compensation for all damage occasioned by the exercise of the liberties hereinbefore reserved, and also reserving to the said lessor, his heirs and assigns, and all persons authorised by him or them, the exclusive right of shooting, sporting, fishing, and preserving game, hares, rabbits, wildfowl, and fish, upon or on the said premises. 5. To hold to the lessee, his executors, administrators, and assigns, for one year from the _____ day of _____ last, and so on from year to year, until this demise shall be determined at the end of the first or any subsequent year, by either party giving to the other six calendar months' previous notice in writing. 6. Yielding and paying therefore, during this demise, the yearly rent of _____ by equal half-yearly payments, on the _____ day of _____ and _____ day of _____ in every year, the first half-yearly payment to be made on the _____ day of _____ one thousand eight hundred and _____, and the said yearly rent to be paid clear of all deductions whatsoever, save the landlord's proportion of poor's rate. 7. And also yielding and paying the additional yearly rent of _____ for every statute acre (and so in proportion for any less quantity) of the arable land which shall be over-cropped or used contrary to the course of husbandry herein-after mentioned, the said additional yearly rents respectively to be paid and to be recoverable at the times and in the manner

at and in which the said rent first hereinbefore reserved is herein made payable and recoverable, and the first half-yearly payment of the said several additional yearly rents respectively to be made on such of the said half-yearly days of payment as shall first happen after such over-cropping, or using as afore-said, and to continue during this demise, and all the said several rents to be paid clear of all deductions, save as afore-said. 8. And the said lessee doth hereby for himself, his heirs, executors, and administrators, covenant with the said lessor, his heirs and assigns, that the said lessee, his executors, administrators or assigns, will pay the said reserved yearly rent of _____ and also the said penal rents, in case the same shall become payable at the times and in the manner hereinbefore appointed for payment thereof, clear of all deductions save as aforesaid. 9. And also that the said lessee, his executors, administrators, or assigns, will not alien, underlet, assign, or otherwise dispose of the said premises, or any part thereof, or in any manner part with the possession of the same, or any part thereof, for the whole of the interest hereby created, or any part thereof, or let the same, or any part thereof, in conacre, without the consent in writing of the said lessor, his heirs or assigns, or bequeath the same by will to more than one person, or divide the same in any manner among his or their children, or next-of-kin, or other persons. 10. And also that the said lessee, his executors, administrators, or assigns, will not build or erect, or cause to be built or erected, any dwelling-house, offices, or any other building whatever, on the said premises, or any part thereof, which shall or may be unsuitable to the said premises, or the due occupation thereof. 11. And also that the said lessee, his executors, administrators, and assigns, will, during this demise, cultivate and manage the said lands in a good and husbandlike manner, according to the true intent and meaning of these presents, and of the covenants, clauses, conditions, and agreements herein contained. 12. And also will during this demise, at his and their expense, well and sufficiently repair, maintain, scour, cleanse, and keep in good repair and condition the said dwelling-house and all other the edifices and buildings on the said premises, and all bridges, gates, palings, rails, and fences, watercourses, dykes, drains, ditches, and appurtenances to the same premises belonging, and any new buildings which may be erected thereon, when, where, and as often as occasion shall require, and whether particularly required by notice or not, and will, at the end or sooner determination of this demise, yield and deliver up the said premises, and every part thereof, unto the said lessor, his heirs or assigns, in like good repair and condition. 13. And also will permit the said lessor, his heirs or assigns, and his or their agents, servants, and workmen, at any reasonable time or times during this demise to enter into and upon the said premises, or any part thereof, to view the condition of the same, and of all defects, decays, or want of repairs. 14. And also that the said lessee, his executors, administrators or assigns, will not during this demise plough, turn up, or convert into tillage any part of the meadow or pasture lands specified in the schedule hereto as not to be so converted into tillage. 15. And also that the said lessee, his executors, administrators, or assigns, will not at any time sow or take off from the said premises, or any part thereof, two cereal or other crops ripening their seeds, without an intervening green crop, properly manured, sown in the spring of the following year, except with the consent in writing of the said lessor, his heirs or assigns. 16. And also that the said lessee, his executors, administrators, and assigns, will during this demise spend, use, spread, and employ, in a good husband-like manner, all dung, muck, manure, and compost in and upon the said premises, for the improvement thereof, that shall or may be made or raised on the said premises, and leave all the soil, dung, muck, manure, and compost not spent on the said premises at the end or sooner determination of this demise, for the use of the said lessor, his heirs and assigns, he or they paying or allowing reasonable compensation for the same. 17. Provided always, and these presents are, upon this express condition, that if and whenever any part of the said several rents shall be in arrear for twenty-one days, whether the same shall have been legally demanded or not, or if and whenever the said lessee, his executors, administrators, or assigns, or any of them, shall sell, assign, alien, sublet, or otherwise dispose of, or let in conacre the said lands and premises, or any part thereof, or in any manner part with the possession of the same, or any part thereof, without such consent in writing as afore-said, or bequeath the same by will to more than one person, or in

any manner divide or attempt to divide the same among his or their children, or next of kin, or other persons, or be adjudged bankrupt, or become an insolvent debtor or debtors, within the meaning of any act of Parliament, or shall compound with his or their creditors, or if and whenever the said premises, or any part thereof, shall be taken in execution, or any proceedings shall be taken to sell the same, or any part thereof, by any creditor of the lessee, his executors, administrators, or assigns, or if and whenever there shall be a breach of any of the covenants hereinbefore contained by the said lessee, his executors, administrators, or assigns, then the said lessor, his heirs, or assigns, may re-enter upon any part of the said premises in the name of the whole, and thereupon this demise shall absolutely determine. 18. Provided always and it is hereby expressly agreed, that the said lessee, his executors, administrators, or assigns shall not make any claim for compensation in respect of disturbance or improvements (except improvements made with the written consent of the lessor, his heirs, or assigns, or for compensation in any respect under any of the clauses or provisions of the Landlord and Tenant (Ireland) Act, 1870. The annual value of the said demised premises being under the Acts relating to the valuation of rateable property in Ireland, the sum of £10. And it is further agreed that the said lessee, his executors, administrators, and assigns, will, during this demise, duly pay the entire of the Grand Jury cess to be assessed in respect of the said premises, or any part thereof, and shall not be at liberty to make any deduction in relation thereto out of the said rents, under the provisions of the Landlord and Tenant (Ireland) Act, 1870, or otherwise howsoever. 20. Provided always, that it shall and may be lawful to and for the said lessee, his executors, administrators, and assigns, to kill rabbits which may be found on said hereby demised premises by means of nets, ferrets, and digging out; but such leave and licence shall not extend to the shooting of same. In witness whereof, &c. In cases where the tenant's valuation is under £50, the lease is the same in all the clauses, with the exception of clause 18, which reads as follows:—Provided always, and it is expressly agreed, that the said lessee, his executors, administrators, or assigns, on quitting the holding hereby demised, shall not make any claim for compensation under any of the clauses or provisions of the Landlord and Tenant (Ireland) Act, 1870, in respect of any money or money's worth paid or given by him or them on coming into said holding.

The following reply has been sent by his Grace the Duke of Leinster to the resolutions of the Athy Farmers' Club:

CARLTON, MAYNORTH, 11th OCT., 1873.—DEAR MR. BATHUR, I have received the copy of the resolutions of the monthly meeting of the Athy Farmers' Club on Tuesday, the 1st October, which you sent me. Mr. Reeves having been present, and having written to my agent, Mr. Hamilton, on the subject, I enclose a copy of his reply. I am yours faithfully,

The Rev. Richard Bagot.

LEINSTER.

4th October, 1873.—Sir, I have received your letter, informing me that you delayed signing the new agreement

under which his grace lets the farms on his estate until the Athy Farmers' Club had received an answer from his Grace to some resolutions passed at their meeting. His Grace cannot take any notice of these resolutions, as he does not consider that tenants on *other* estates have anything to say to the contracts which he enters into with his tenantry. These agreements were drawn up at his Grace's desire, by some of the most eminent lawyers in Dublin, and with the express view of being in *exact conformity* with the provisions of the new Land Act; and I must say that I was much surprised that a tenant for whom his Grace had done so much should have been the *first* to put before the public such misstatements as were made at the Athy Farmers' Club. The proper course for you, in my opinion, would have been to have taken some competent lawyer's opinion as to whether there was any point in the agreement sent to you inconsistent with the provisions of the Irish Land Act; and if such point was found, it should have been represented either to his Grace or to me by some of his *own* tenantry. I am always ready to give any information I can to any of his Grace's tenants; and as you have written to me on the subject, I will now refer to the several points you object to. Clause 6 refers merely to the payment of the rent, so I suppose that No. 5 is that which this resolution refers to; and the six months' notice to quit is exactly what has been customary from time immemorial, and is recognized by the new Act. No. 10 can be objected to only by a tenant who wishes, in direct opposition to the Act, to erect a building *unwarrantable* to the premises. No. 17 has been in substance, in every lease which has been hitherto made on the estate. It is said in the resolutions passed at the Club that Nos. 18 and 19 contravene the provisions of the Act. A simple question put to any competent lawyer would have satisfied your mind that they do not. The landlord and tenant may in future agreements make any contract they please as to payment of county cess, as is obvious from a perusal of the Act. As to compensation, the tenant holding under £50 valuation is entitled to the compensation provided by the Act; but as to money or money's worth paid or given by a tenant on coming into his holding, no claim for compensation was ever recognized on his Grace's estate, and the clause referred to is quite consistent with the Land Act. Where the holding is *over* £50 valuation the contract embodied in clause 18 of that form is strictly valid. I should recommend you to compare his Grace's form of lease with some of the Scotch and English leases, and I think you will find this one very liberal, and with no restrictions on a farmer's doing the best he can with the land. And I think the fair thing for any tenant to do is, to state exactly *which* of the covenants it is his deliberate wish to violate. The new Land Act renders it expedient that *every* agreement should be in the form of a *lease*, and as his grace has taken pains to have the one he offers to his tenantry drawn in *exact accordance* with the provisions of the Land Act, those who wish to confine in occupation of farms under his Grace will be required to hold with it."

A large number of the tenantry have, it is said, refused to sign the lease.

AYRSHIRE FARMERS' CLUB.

HARVEST EXPENSES.

At the dinner held in Ayr, Mr. W. Reid, Clune, President of the Club, in the chair,

The SECRETARY read a letter from Mr. Hope of Fenton-barns, expressing his thanks to the Club for the resolution of sympathy that they had passed and forwarded to him.

The CHAIRMAN said it had been agreed by the Committee that there should be a discussion at this meeting on "The various modes of reaping this year's crop, and the expense thereof."

Mr. DALGONN (Templand Mains) stated that he did not crop his land much, as he considered it better to allow it to lie in grass. Because of this he had to stand the obloquy of strangers who come round his way. Lately a person passing near his high land met a boy, and asked whose land it was, and on being told, he said, "Is that Templand?" This fellow comes down to Ayr and talks about farming and draining, but

it would be better for him to commence at home. This land is as wild as when Noah came out of the ark." Notwithstanding this, however, he found the system he pursued ministered most to his comfort, and contributed to his pecuniary advantage. All the crop he had was not much to speak of; and it was a good deal laid and twisted with the storm, so that he was obliged to reap it in the old way with the sickle. This year he made a bargain with a party to reap and stook his oats at 20s. an acre, and he did not think they had extra good wages. At all events it cost them a great deal of labour, and as they made a good job he did not grudge the price. He had machines, but could only use them for cutting hay.

Mr. WALLACE (Brashhead) said this had been one of those peculiar harvests that they had to fight through as best they could; and their preconceived systems had often to be departed from to suit the weather. The plan he commenced with

at Braehead (with wheat) was to have six women lifting with each machine, two men binding, and one man stooking. They had also tried with three men binding and stooking to suit themselves, but they found this more harassing work than the other way, which he accounted for by the fact that the stooker was a handy man, and could do most work. He believed they got on best with four men binding and stooking and six women lifting. At Thornyflat (with oats) he had eight women lifting and binding and two men stooking. During a great portion of harvest they did not get many full days together; but at the beginning of harvest, when the work was going on regularly, he took the trouble to measure the amount cut in a day of ten hours by one machine on Braehead, and found it to be 6 acres, 1 rood, 16 paces. The workers employed were six women at 2s. 5d. per day; one man lifting at 4s.; one man stooking at 5s.; two men binding at 4s.; and a boy driving at 2s.—in all, 90s., or at the rate of 5s. 6d. per imperial acre. He reckoned his own men at 4s. and 5s. a-day. Being near the town, he got the workers a little cheaper than those farther away. Had he the same work to do again, he would prefer to have more workers, as he was scarcely satisfied with the work done amongst the oats, which were difficult to manage from being so badly laid. On Thornyflat he believed the expense would be much about the same; but if he had the same work to do again, he would be disposed to put on ten women to lift and bind, and two men to stook. He employed men binders for wheat and women binders for oats. He might mention that he had got his machines made six inches wider than usual, seeing they were to be used on level farms. When the stuff was short they were obliged to divide the sheaves; but this year the stuff being long they did not require to do that. He did not put on head-sheaves at Braehead, but he did at Thornyflat. He reckoned that it required a man extra to do this. On the whole, he was not satisfied with the season's harvesting at all.

Mr. CUNNINGHAM (Stirling) said they had met to-day under somewhat different circumstances from a number of their brethren who met at Haddington the other day to discuss the best mode of raising potatoes. The Chairman of that meeting, after reading out the subject for discussion, said they did not require now to discuss it, as there was no crop to raise. Now, although they had lost a considerable portion of their crop, they still could benefit somewhat by giving one another's experiences of the mode in which they had carried through their reaping operations. Mr. Wallace had stated that he had not been satisfied with his reaping this year; but he never got his crop cut down better, more expeditiously, and, taking the rise of wages into consideration, more reasonably. Unfortunately, however, he happened to be rather early, and had got it all cut down just the day before the weather broke. He had kept an account of the whole cost of the cutting on his farm, though he could not give the details in the same way that Mr. Wallace had done. The quantity cut was 110 acres, which cost little more than £90, giving an average of something like 5s. 6d. per imperial acre. This included the cost of opening up with the scythes. He employed two machines, with 14 women to lift and bind, and two men to stook. In wheat he found he could do with fewer hands than with oats this year; indeed, he employed as many hands to one machine at oats as he did to two cutting wheat, barley, or standing oats. He had simply put down the money he had actually paid out. The women at hand who usually worked on the farm only got 2s. 6d. a-day, and those from the town got 8s. He had counted his own ploughmen at 3s. a-day. He should say his stuff would not be so cleanly-gathered as Mr. Wallace's. His neighbour, Mr. Reid, had a horse-rake, and he got the loan of it, believing that by using it he would do with fewer hands lifting. Well, the result was this: the first day the workers gathered up the stuff in the usual way; but the second day, when he took the rake into the field, the workers said, "Oh, it gathers far better than we can do, and there is no use in us doing it." The consequence was that he lost his rakings, for the wet weather came on, and the rye were spoiled. None of his corn was hooded; it was just stooked in the ordinary way, which could be done at a less expense than if hooded; but they had all learned a lesson from the untoward season they had passed through. Doubtless, Providence meant that they should learn more lessons than one; but for one thing, they were likely to adopt some other method for stooking their corn than they had been in the habit of doing. Wages of all kinds had gone up so much, and other expenditure had increased so greatly of late, that probably they were endeavouring to

economise more than they should do in the employment of hands. Of course the season had been quite an exceptional one, and they might be tempted again to run the risk of leaving their stocks unprotected; but he thought they should lay the lesson to heart, and probably they would find in the long run that it would be better to do the work sufficiently.

Mr. YERVIS (Highfield) said there was a portion of his corn that could neither be cut with the scythe nor reaping-machine, and he let it at 21 per imperial acre for cutting and stooking. After that portion was finished the weather broke, and it had mostly all to be opened out, and then tied and stooked a second time, which cost about 5s. per acre more. He did not know what his other reaping cost per acre, but he knew the harvest had cost him double this year what it had done in ordinary seasons.

Mr. BROWN (Ardreel) said his expense in connection with the harvest had been so great, that he gave up keeping a record of it; but, like Mr. Young, he believed it had cost him double what it had done in ordinary years. He had to try all modes. Although he had plenty of reaping machines, there were portions of the crop that he could not cut with the machines. He scarcely ever stopped work on account of wet days. When it was wet they did not tie the stuff up, but let it lie on the straws, and they got it mostly all dried very well. On some lighter and steeper land he cut with the scythe wet and dry, and the stuff being high he got it dried in very good condition. He was like Mr. Cunningham with his wheat, he was fortunate in getting it out before the weather broke; but he took the old-fashioned plan of hooding it, and in that way he saved nearly all except the hoods. There was no sprouting in the sheaves, and he got it in fine condition. He did not know how many hands he employed. He did not think it was any saving to have few hands, especially to such a harvest as last. People worked better when they had not too much to do. There was a great deal of twisted corn, and he was either present himself or had someone he could trust to see that it was properly straightened before it was cut. There were some new implements he approved of, and some he did not. He would burn all rakes, and turn the iron ones into horse-shoes. Whenever the workers saw a rake coming into a field, they said there was no need for them to gather, as the machine would do it better than they could. He had told his workers that he would not allow a rake to be used on his farm, as in such a wet season they would be sure to lose the rakings. The result was that the workers gathered the stuff so clean, that no one would have thought of putting on a rake after them. As to the employment of women on binding, he never saw any good in making women do men's work. They might get some stout young women to bind well enough; but, as a rule, women had not the strength to bind a good wheat-sheaf as tight as it ought to be. As to hooding, he had at first set one man to do that; but he complained that the others did not stook the sheaves right, and they retorted that they could hood as well as him. He allowed them to try it, and they made a very good job of it. Although there had been few seasons so wet as this, still in early districts there were in all years heavy thunder-rains, which wetted the stuff and caused it to sprout. But if it was hooded this danger would be avoided. He had lost a little this season. The head-sheaves were greatly injured, and sometimes the sheaf at the side of the stook. He took these all out, and thrashed one half of this injured stuff at once; the other half he stacked in a long thin stack, with the heads all out. After a week of dry weather, he found that the good dry wheat was not injured, while the growing wheat was much dried. In that way he got it better separated and cleaned, and having it so well separated he got a good price for it. He believed it was a great advantage in wet seasons, when the wheat was not all of equal length. A square-headed sheaf, where the heads were all closely packed together, was far more apt to sprout than when the stalks were of different lengths.

Mr. WHITE (East Raws) said he could scarcely keep a correct account of his expense in the harvest, there was so much broken time. When it was dry, and the ground would carry a machine, he cut with the machine; when it would not, he used the scythe; and when they could not cut with either the scythe or the machine, they had to use the hook. It was all oats. He could only give a guess at the expense. They generally had six women lifting and tying, and two men stooking. He would have preferred eight or nine to lift, six could scarcely keep a machine properly going, and whatever

time was lost with the machine involved a greater expense in cutting. He considered the work was both best and cheapest done when both machine and workers were kept constantly going. What he let to be cut with the hook was at 24s. per acre, to set in the stook; and he estimated that the cutting cost him fully 10s. per acre all over.

Mr. YOUNG (Kilhenzie) said the usual thing in his district was to have six women lifting and three men binding and stooking, besides a man tilting and a boy driving. Some, however, had four women and four men, and in cutting wheat perhaps the latter mode was the best, as it gave the men more time to stook properly. He generally employed eleven hands to each machine, but when the crop was heavy he had put on three additional, and found it no loss. The expense with him ran about 7s. per acre. Some oats which had been laid as flat as if a roller had passed over them, had however cost him as much as 26s. or 27s. per acre. Like Mr. Whyte, he had to work all ways. There was one disadvantage in cutting with the hook, particularly when the stuff was wet, and that was that it was more apt to sprout, from so many handfuls being put into the middle of the sheaf. His opinion was that the scythe was the best, and the machine came next. Mr. Brown, he thought, had shown more wisdom than most of them, in having his wheat hooded. He suspected the farmers of Ayrshire would this year have got such a lesson that it would be four or five years before they would forget it. One reason, he thought, why hooding was so little done, was that not one man in four or five could do it properly.

Mr. BROWN said when the sheaves were properly put up and inclined towards each other, there was not much difficulty in hooding. The men he had were Irishmen whom he had never had before, and when he once let them see the way, they made a very good job of it.

Mr. YOUNG (Kilhenzie) said the sheaves that sprouted worst with him were those that were neatest and squarest-topped. The sheaves that were very uneven did not suffer to the extent of one-tenth of the others.

Mr. GEMMELL (Wyllieland) said his experience had been entirely with oats, which were a very heavy crop, and fully a half of it was cut with the hook, owing to the stuff being so laid and twisted. About one half of his crop he let at 24s. per imperial acre, to be cut and laid on the strap, and he paid a man 8s. a day to come from Kilmarnock and tie it. That portion, therefore, cost him about 30s. per imperial acre. The stuff was well cut, and no stalks were left on the ground. The only fault he had was that the sheaves were made too big, considering that the corn had been very wet; but he got the man to "geit" the sheaves, and they dried quite well. The crop was damaged a little by being too ripe, but not by sprouting. The other portion of the crop, which was not laid so bad, they cut with the scythe and machine, at an expense a great deal less than the other portion, but the exact amount of which he could not state. There was another portion that he let by the thrave, to obviate the objection he had to the making of too big sheaves. He agreed to pay 7d. per thrave, or 3½d. per stook, and he got a good job, which would cost him at the rate of about 21s. per acre. He could not estimate the cost of the portion cut by his own farm servants.

Mr. BONE (East Sanquhar) said there was one thing with regard to the wheat crop that would force itself on their attention if they had many wet seasons, and that was the necessity of growing two or three different kinds of wheat together, some of it taller and others shorter. He had seen this season where two different kinds were thus grown together, that there was no sprouting, even when it was not hooded. He believed with Mr. Brown that the worst thing for sprouting was a square headed sheaf; and that to have different lengths would be of advantage in any season, but especially in a wet one. The late harvest was the most expensive one he ever had; he believed the cutting would cost him double the amount mentioned by Mr. Wallace and Mr. Cunningham, particularly the oats. In the oats he had eight women and four men in one part of it, besides two men straightening up the face of the uncut stuff. In another portion where the crop was heavier, he had three additional hands, and he found them hard enough wrought. Though the expense was very considerable, he believed it would have taken other two hands to make the work as good as it was in ordinary seasons, the oats being so tangled. He believed that many of them, from the experience of the last two or three fine seasons, had given up the

practice of hooding. The result had been a very disastrous loss both to themselves and the country.

Mr. THOS. M'CREATH (Alexandria) said the subject was not one he had much experience of; but it occurred to him that two or three rather important questions had been raised in the course of the discussion. For instance, it was admitted that the neglect of hooding had entailed great loss; but the question came to be whether, taking a number of years together, the additional expense of hooding regularly in seasons when it might not be required, would not swallow up any saving that might be effected by it in a bad year.

Mr. WALLACE said he believed that hooding was an advantage in any season; for when once hooded they could let the grain stand in the field as long as they liked, and carry it at their convenience, and they would generally find the protected sheaves of a better colour. There was a portion that he had hooded this season that he expected to be able to make good seed wheat of. Another thing was that if everybody got into the habit of doing it, it would be far better and easier done. The difficulty with him was that in changing hands he had to teach them every year. Now, if it was a general custom they would not have that difficulty to contend with. One advantage of it in all seasons was that hooded stooks were far less likely to be overturned by storms, and the trouble and expense of setting up again would thus be avoided.

Mr. YOUNG (Highfield) said another advantage of hooding that had not been referred to was that the stuff was ready for carting at any time, as for instance on a dewy morning or immediately after rain.

Mr. M'CREATH said another important matter was the question of expense. The general opinion was that the expense of harvesting this year was a great deal more than in ordinary years. Mr. Gemmell had stated that some portions of his crop had cost him 30s. per acre for harvesting. This was very startling. Why, sometimes an acre of oats was not worth much more than that. A very important question had also been started with regard to the mixture of wheat in sowing. That was a matter that should be very seriously considered.

Mr. CUNNINGHAME said he had practised the sowing of different kinds of wheat, but he could not say that it had made much difference this year.

The CHAIRMAN said they usually looked for pure samples of wheat for sowing.

Mr. BONE said undoubtedly what they did use should be pure samples of the different kinds.

Mr. HOWIE (Law, Dregghorn) said he should have liked that some of the gentlemen who had spoken so confidently of hooding as a remedy, had told them what good hooding would do when the wheat was sprouting before it was cut. He happened to have some of that kind, and his neighbours had a good deal also. It was spring sown; and they found on thrashing that it was worse than the thing that had sprouted in the sheaf. It was mostly woolly-eared, and there was also some red-eared, which was not so bad. He thought it was a great mistake to sow so much woolly-eared wheat in this country. He himself sowed mostly oats, as he did not altogether believe in wheat, especially in connection with dairy farming. He also had some mashlum this year—that was a mixture of beans and corn. In estimating the cost of cutting, he only took the time spent at the work, and made no account of wet days. He employed six, seven, or eight women to lift and bind, one man to stook, a young man to drive, and he generally tilted himself. Altogether he calculated that it cost him 6s. per acre, without reckoning anything for himself. The difference in the estimates of expense that had been given would probably be accounted for in some measure by whether or not they had dry footing for their horses working the machines. The first two days with him the ground was dry and hard, and he cut 12 imperial acres. Other two days, when the ground was wet, he only cut 5 imperial acres—much time being lost by the choking of the machine and the wetness of the ground. He contrived to cut all his crop with the machine, excepting one half day. Of the different kinds of cutting he would place the scythe last of all. He opened up with the scythe a day or two before commencing with the machine; but he now thought it a mistake, unless they could get their sheaves laid safely up against a hedge; but if they had to lay them on the ground they got wet and sprouted, and became useless. He did not agree with Mr. Brown about working on wet days. He had a good number of wet days, and at last getting impatient, he did cut one wet day, but he repented it afterwards;

for though he made the sheaves as small as possible, after it had got nearly a fortnight of the best weather during harvest, the stuff was as wet as when it was put up, and he had to open it all out again. He was satisfied that wet cutting was not a good thing.

Mr. BONE (Auchenloigh) said, like Mr. Howie, he would not approve of wet cutting at all. In his district they were pretty well sheltered with woods, and wet-cut stuff was always very difficult to manage. With reference to what Mr. Howie had said about opening up with the sythe, it had come to be a question in his district whether they ought to open up with the sythe at all, or whether it would not be better to put the horses and machine through it at first. It was the opinion of many that it would cause less loss, and do the work tidier.

Mr. HOWIE said a neighbour of his had tried that plan this season. He put the machine along the side of the field, and told the driver to keep the horses as near the edge as possible. He also instructed the men to watch the wheels well. The thing was done to his satisfaction, and then they turned back on what had been left. He told him he would waste less time in future in opening up with the sythe.

Mr. BONE said three bouts of the machine would open up sufficiently.

Mr. YOUNG (Kilhenzie) was apprehensive that in a wet season the horses' feet would trample a good deal of stuff into the ground, and spoil a considerable portion of it.

Mr. BONE said that where there was a good bottom of grass there was little fear of that. He did not think the loss would be as great as with the sythe.

The CHAIRMAN had not kept a very correct account of the expense of his harvesting, but he believed it would be much about the same as that of Mr. Cunningham and Mr. Wallace—somewhere about 6s. per acre. When his wheat was cut he had six women and three men attending the machine. The women tied, with occasional assistance from the men, and the three men stooked the stuff and hooded it all. His system of hooding was somewhat different from the ordinary

method. The stooks were put up in nine sheaves—four sheaves in a square, then other four; and the ninth sheaf, tied very close by the bottom, was turned down over the tops of the others, just like a small rickle. When well done it stood remarkably well, required no tying, and could scarcely be blown down. There was very little damage to his wheat protected in this way. A few heads of the covering sheaf and of the sheaf on the side most sheltered might be destroyed, but the rest was all sound. For oats he had an additional pair of hands. He had two boys raking up the straggled heads. He did not agree with the remarks that had been made about the rake. He thought it was a waste to keep women at 3s. a day gathering up straws. In his experience the harvest work was being better done every year. Notwithstanding the heavy crops they were now raising, it was astonishing to see how well they were taken off. The oats he put up in four sheaves, with a few straws tied round the top of it. It "winned" very quickly in this way. A great matter was to have small sheaves, and not too tightly tied.

Mr. WALLACE thought it was a waste of time and straw to tie straw round the oat stooks. He would be almost inclined to go for hooding oats also.

Mr. YOUNG (Highfield) did not think there was much waste of time in hooding. His opinion was that two men were quite able both to stook and hood. He approved very much of Mr. Reid's method of hooding.

Mr. CUNNINGHAME said Mr. Gemmell had referred to the plan of "geiting." This was setting up single sheaves, opened out at the bottom like an umbrella. His belief was that a "geited" sheaf would not sprout, even when the growing corn was sprouting. He had proved this last harvest. The water got all down through it, and did not lodge in the grain. Nor did he think a "geited" sheaf would be easily blown down.

Another subject announced for discussion at this meeting, viz., "The preparing and manuring of land," was postponed to a future meeting.

WINFRITH FARMERS' CLUB.

At the opening meeting of the winter session, Mr. J. Bates, president, in the chair, the subject for consideration was, "The best mode of disposing of the Straw on the Farm."

Mr. W. LONGMAN read the following paper: The subject which I am engaged to present to your notice is one which is of great importance to the practical farmer, for no other circumstance, perhaps, has so much influence on his profits as a judicious mode of consuming the straw of the farm. The straw contains the material of the dung-heap; it has value also as fodder, as a fodder where cattle are penned in yards. To consume straw alone is a kind of management which has no advocate among good practical agriculturists of the present day; yet it is a practice we sometimes still see pursued. We hope such practice to be nearly extinct. I think an inquiry into the value of straw as food and manure cannot fail to convince every reasonable man that this practice is in every way unprofitable. As to other various ways of consuming straw, it depends more or less on the kind of farm, and consequently on the quantity of winter food which it is profitable to grow, than on the intrinsic value of the straw itself, which of the various methods it is best to pursue. It is a practice in some counties where there are occupiers of strong land farms, and they cannot conveniently raise root crops or provide hay for winter food, to tread down as much as possible of the straw with cattle fed on green food in the summer. I should recommend, where there are badly-constructed yards, and where the water is not carried from the buildings by means of spouting, that a portion of the straw which is not required for feeding purposes may be carried on the two years' lay on our hill farms, where there are not a sufficient number of cattle kept to consume it in the yards. It is most essential that yards should be well sheltered, not only for preserving the manure, but also for the well-doing of the cattle that are fed in them, for I believe it is a great mistake in allowing cattle to be too much exposed to the cold winds in winter. In many instances the

two-year-old sheep are fed with clovers, in which instance the straw would soon become rotten and mix with the soil; but where there is a larger number of cattle to be fed, the food given them produces no profit to the farmer unless they either grow in size, lay on fat, or produce milk, and manure is of no value unless it repairs the fertility of which the corn crops exhaust the soil. We know very well that if the whole produce is carried off, the land is quickly exhausted of its fertility; but if the whole produce is left in the soil, as when crops are ploughed in, the fertility of the land is greatly augmented. Then we know that if the corn of the crop be taken away and all else returned to the land, yet the soil will lose in fertile power. But if the whole crop be consumed by cattle feeding on the ground the land improves, though not in the same degree as when the crop is wholly ploughed into the ground. On the average of good fair land, if one crop be consumed with cattle and the whole of the manure of that and the straw of the succeeding corn crops be returned to the soil, the land will be maintained in a state of equable fertility. Straw varies much in its feeding qualities, and I do not think anything satisfactory can be gathered respecting the nutritive properties of straw from the experience of merely practical farmers. Its value depends of course on the quantity and nature of the digestible matter which it contains, and this can only be ascertained by well-conducted experiments, guided by science. There is a table published in one of the numbers of the Journal of the Royal Agricultural Society, which shows the comparative value of the different articles of cattle food; I have only taken a few notes that apply more immediately to our subject. Hay is adopted as the standard, and the table shows how much of other kinds of food is equal to 100 lb. of hay. According to this table it takes 442 lb. of rye-straw, 374 of wheat, 195 of oats, 159 of vetch, 153 of peas, 140 of beans to be equal to 100 lb. of hay. Therefore we see that the straw of different crops varies considerably in its nutritive properties, showing

we should only use those kinds which would keep cattle in a thriving condition. In some seasons these are of equal value with hay, but I have not had sufficient experience in cutting chaff for bullocks to know whether or not the various kinds of straw used for fodder should be cut. I have no doubt the coarser kinds should, as they contain much that is needful for a growing beast, and they should be consumed as fodder. But the straw of white crops (though in some seasons it is much better than in others) is never so rich in soluble substances as to make cattle grow. It is impossible to get from the straw of white crops enough nourishment to maintain cattle in health and vigour, much less in a state of profitable growth. We give our cattle food in order that we may increase their value, and whatever food we give without producing some return, either in increased size or fatness, or in milk, is entirely wasted. There is thus a necessity for mixing with the straw some food of a more nutritious kind if we would reap a profit from the stock that consume it. This it is the practice of all good farmers to do. Its value as an article of food is absolutely nothing of itself, for cattle living on it will not yield any return. The question is whether we can extract from it a profitable diet by mixing it with other substances, and whether it does not lose more in value as manure than we gain by consuming it as fodder. If we mix it with a large quantity of nutritious articles, the woody fibre of the straw will not be digested. It will pass away in excrements, and the animal will be supported wholly by the better food and the soluble part of the straw. It is useless, therefore, to give straw to feeding beasts. It must be used with a sparing quantity of other and better food, and consumed by growing cattle. In this way there is no doubt that it may be consumed as fodder at a profit. If we look on the other hand to the value of the straw in the manure-heap, we shall see the same necessity of mixing it with other food, if the manure is to be capable of repairing the waste which corn crops occasion. Nothing can come out of straw but what is in it, and as it contains but little nitrogen, the dung-heap made from cattle feeding wholly on straw, would be comparatively of no value. It must be clearly wrong, unless we preserve the urine in tanks, to use straw as fodder which can be used as litter for animals feeding on good and rich provender; but if we consume the whole of the straw as fodder and collect the manure of the cattle in tanks, we have precisely the same ingredients in the liquid manure as we should have had in the solid dung-heap, except only that portion of soluble matter which has been extracted from the straw by cattle. The question, therefore, as to the use of urine in tanks, is whether the value of the straw as food is enough to repay the expense of collecting the urine in this manner. Instead of our common method of wetting the litter with it, there are other reasons given for preferring the plan of tanks. It has been thought the ammonia produced by the decay of the urine is dissipated in the dung-heap, and preserved by means of tanks; but it seems doubtful whether the dung-heap, well-managed, does not preserve the ammonia as well as the other plan. Sprengel shows that unless a large quantity of water is added to the urine in tanks the ammonia is partly wasted, and he gives reason to believe that, in the mixed mass of vegetable and animal substances contained in the dung-heap, the vegetable matter in decaying forms an acid hamic, which is capable of fixing the ammonia formed by the animal substances. Dr. Voelcker tells us that it is much more by the washing of rain-water than by the escape of the gaseous products of fermentation that manure suffers loss, and that no better plan exists of applying dung to the land than spreading it over the surface as soon as made, whether it be ploughed in or not. When freshly-made it contains but little matter capable of losing by exposure or by washing, but this loss becomes possible and actual as it rots in heap together. I should recommend yards to be cleaned as often as possible, for I believe dung carried on land when fresh-made to do much more good than after it has been allowed to accumulate in large quantities.

Mr. RANDALL said if ever there was a season when it was of importance to know what to do with the straw it was the present. He would first observe that he had been in the habit for several years past of growing mangold, and of putting a certain quantity back to feed the dairy cows in the bartons, and he found the practice answer exceedingly well. The beasts were brought into much better condition than without it. He thought if the feed of beasts were confined entirely to straw, it would be a mistake, as they would be thereby kept in a poor condition in the spring, and the manure made from them was

of little value. This year he was in the same position as he dared say many of his friends were; he had a quantity of corn, and the consequence was the straw was of no value at all, and he was sorry to say the corn was not much better. Then came a point to which he had given great consideration—what to do with the straw. He had come to the determination to thrash out the straw, and keep sheep, carrying away the surplus swedes which he could afford to take off the land, for he was pleased to say he had a decent crop this year. If he used the straw to be trodden in by the sheep, he should be turning the straw into the best manure possible. He had adopted this resolution for the reason that the straw for feeding purposes was of no good at all. His friend Mr. Cooper, of Whitcombe, had been in the habit for years past of taking in beasts to keep. His system was to charge nothing for straw to those who sent their beasts to him, but to insist on 4 lb. of cake daily for each bullock. He (Mr. Randall) thought that was a wise and judicious method for getting rid of the straw. He did not clearly hear some of Mr. Longman's observations as to carrying out the straw upon the lay ground; it was certainly not a bad system. If they had a quantity of straw lying about it sometimes answered a good purpose. He had seen some very good crops raised from straw being scattered on the ground, and the sheep turned upon it in the fold. So far as possible they should turn the straw into manure by means of the still fold, but it was preferable to do it in the yard.

Mr. J. SLX quite agreed with Mr. Randall's observations with reference to consuming the straw. He had always found a use for his straw, and never had any wasted or put about. It was always consumed by the cattle, but without giving them some feed with it, it was of little value. He never allowed the cows to go into the yard without having mangold, swedes, or cake all the time they were there. Occasionally he turned them out to grass, and when they came back they brought something to the straw, which was thus made useful. It required them to be very particular in preserving their straw; it was quite as important to know the right way to preserve straw as it was to know the proper mode of securing hay. It must not lie about in the wet, for if the wet penetrated it there was a loss of ammonia, and consequently a loss of the profit they would get from the straw as manure. If he had any straw he made it into a rick, and thought as much of it as he did of the best hay. He always found that straw, if preserved well, was doubly as valuable as if it laid about. If things were taken care of in their infancy when the sap was in them they always turned to use. He tied his oats in sheaves without thrashing them, and cut them up into chaff which he gave to the horses and dairy cows when required, and he found the manure was doubly as good as if they were fed on straw alone. If anyone had seen the farm he occupied twenty years ago, and looked at it now, they would observe some improvement in it. The soil before he acted in the way he had mentioned was very stubby, and clung together when it was turned up. After using the manure and preserved straw the soil, when turned up, cracked abroad like mould, and there was no trouble in dressing the farm; whereas, when he first took it, he was obliged to have the horses over it three or four times, and the furrows were made over and over again. He had to thank his mill for some of the benefit, for he kept 100 pigs, which consumed a large quantity of straw; but he never used any for them unless what the cows had laid upon. He had been rewarded by what he had done, and he hoped his landlord would also be rewarded hereafter. The land was much better than when he entered on it, and having been so long on it, he deserved to live still longer and improve it more. He had made it better, and at the end of his days he hoped his landlord would reap benefit from it. He advised them all to take care of the straw as much as they did of the hay. As to root crops, they grew plenty of them by using artificial manure with farm manure, and the former was not half so beneficial without manure made from straw.

Mr. RANDALL inquired if Mr. Sly gave his horses any fixed quantity of oats.

Mr. SLX supposed about a bushel per week; as to the straw, he never measured it, but there was none wasted.

The CHAIRMAN said whatever straw they grew must be taken out of the land, and it was of consequence to know the best mode of returning it, so that it should be available for the next crop. Mr. Sly had observed that it was as important to preserve straw as it was hay, as they had to fall back on straw to a certain extent as food for stock; and although, perhaps, it

did not form the most fattening nourishment, it would keep them alive. It was very easy in these days of cotton and linseed cake to supply the fattening properties in which straw was deficient. He believed a large portion of the expense incurred in producing this additional fattening principle was returned in the shape of the additional value of the manure derived from straw. He was sorry to say that in this part of the country there was not sufficient appreciation of the value of straw. He himself—and he ventured to say he was not the only one—had seen the straw lying about year by year of no value at all, and possibly it was thrown away. This might be obviated by early care. As soon after the straw was taken from under thatch to be thrashed, the sooner it was put again under cover the better. It would be consolidated and kept dry, for doubtless it contained a certain amount of nutritious matter, and the more it was wetted the more of this was lost. Therefore, in his opinion it was an object sufficiently worthy of their earnest care to secure it from air and rain. In these days of artificial feeding he was certain it was not to their benefit to neglect the advantages of what is produced upon the land in the shape of straw. They ought to consider how they could augment its advantages by mixing it with those condiments so easily obtained in food, and increasing the value of the manure which is the residuum. On this consideration, therefore, the point was of so much interest, and so deserving their attention. He thought they should be thankful to Mr Longman for bringing the subject forward, and also to those gentlemen who had afforded them the benefit of their experience in the utilisation of straw on their farms, and for showing how the most valuable use might be made of the straw which is allowed to lie about in a neglected manner in many places. No doubt straw in its crude state possessed a certain value, as Mr Longman had remarked, if only trodden in. It was of great use as a raw material, but he thought there was a certain amount of nutritious material in the straw which might be taken out by

the stock, and by supplying phosphates in the shape of artificial food, they would not only replace it in the form of manure, but they would take out a large amount of nutriment by adding to it cake and those oily substances which assist digestion of the straw, and render it still more nutritious as food and more valuable as manure in the end.

Mr. LONGMAN wished to answer one remark made by Mr. Randall. He said that the surplus straw should be put into the sheep-fold. He (Mr. Longman) thought the plan a very good one, but where he recommended the application of straw to clover lays was upon farms that did not keep a large amount of cattle. But in cases where a considerable number were kept, it might be trodden in with advantage.

The PRESIDENT wished to add something to what he had previously said. A remark had been made on the different circumstances of those who occupy dairy farms, and those who farm purely corn land. The dairy farmer had many advantages for disposing of his surplus straw which others had not, and thence came the "tug of war." He might be allowed to quote what Mr. Randall said with respect to Mr. Cooper, whose plan was by no means a bad one, as he got his straw consumed with a certain amount of cake. The cake made an excellent equivalent for the quantity of straw consumed. It was possible a man might not always be able to find customers for his straw. But if Mr. Cooper found the system answer there was no reason why it should not succeed in other cases. He agreed with Mr. Randall that where it could be done with cattle it could be done with sheep. If they could increase the value of the straw by feeding it and treading it in and thus obtaining ammonia, it was certainly preferable to throwing it on the land unconsumed and unused.

Mr. BOOCOCK talked about all sorts of things but the use of straw, and votes of thanks were passed to Mr. Longman and the Chairman.

ESSEX CHAMBER OF AGRICULTURE.

THE MILITIA—LAND TENURE.

At a general meeting, Mr. J. Round, M.P., in the chair, Mr. YOUNGMAN asked whether any reply had been received from the magistrates to the memorial presented from the Chamber to ascertain their opinion as to the value of highway boards?

Mr. BENTALL answered that the memorial had been presented, but he had received no reply.

The CHAIRMAN said that at the last Quarter Session he moved that the memorial be received—he did not move that it be adopted—and Col. Brise seconded it, but the proposition was negatived.

Mr. JAMES PERTWEE then read a paper on The desirability of the Militia being called up at a more convenient time of the year. He said: I feel that I have approached an important subject, and the more I have given it consideration so much the more its importance has been made manifest to me. I am quite sure that the necessity for a change in the time hitherto appointed by the Secretary of State for calling out the militia for their training is so palpable to every employer of labour, that it is a fit subject for discussion by a Chamber of Agriculture. Now, the subject is of considerable importance to three classes of the community; as it affects and seriously interferes with the farmer and employer of labour; it affects the labourers themselves; and last, though not least, it affects the public at large. I will, therefore, endeavour to divide the question before us briefly into three parts. In the first place it will not be difficult to show how it interferes with the labour upon the farm at one of the most critical times of the year; for, gentlemen, we know, as farmers, that upon the spring of the year mainly depends the future harvest; and while we, of course, acknowledge the hand of Providence in everything, still experience teaches us that much is done by cultivation, and that he who is content to depend upon the clouds and the sunshine will probably reap nothing but weeds. Then I contend that if anything can be done to assist nature in producing the crop the greater part of it is to be done in the spring—that is, before the month of May

is out, just at the present time of calling out the militia. If therefore the Secretary of State could be convinced of the desirability of appointing a more convenient season for training the militia we should have the labour and services of these men—for the greater part of them in the regiments in this county are agricultural labourers—at the time when they are most required upon the land. Let us, then, glance at the loss to the employer. Suppose each man would hoe 12 acres in the month he is on militia duty, by removing 1,000 men you leave unhoed 12,000 acres of wheat. Presuming, then, that half are from towns, we have this result—taking 60,000 as agricultural labourers—that 720,000 acres of corn are unhoed. And surely we are entitled to some consideration in the matter, when the whole flood of the speeches of M.P.'s and other gentlemen at agricultural gatherings have been turned upon the labourer, and when the hinges of the agricultural and commercial interests are creaking and groaning under the weight of an unreasonable demand of very high wages for a very little work. I will not, however, go any further with the question of labour, because it might afford a topic for discussion at some future meeting of the Chamber, but will proceed with the second part of my subject. The rank and file of the militia are for the most part composed of young single men who do not get permanent employment, but live as best they can during the greater part of the winter; and when work upon the land is slack some of them find employment with thrashing-machines and occasional odd jobs, and some, I am afraid, by poaching, &c., or perhaps something worse. Whence, then, comes the good of the hue and cry after education and better housing of the poor, if we neglect to do the best we can for them when young? Is it not better to teach the boy to be honest and to respect his character than to punish the man for dishonesty? These young men must suffer to a considerable extent, because they lose the advantages of good earnings, and when every one of them could find employment at the highest rate of wages, as most of the hoeing and weeding are done by piece-work, and the days are long; besides which, by being called out when

work is scarce, they would get at least a month's provisions when they might be hard up. I estimate the loss to each man at least £1 for the month. By such arrangement both the employer and employed would be benefited, and the force would not get into disrepute as it is likely to do to some extent if the men continue to be drawn from employment as hitherto. I might very well say that the force has already felt the grievance, for I am informed that it is 20,000 less than in 1871. I shall be most likely met with the argument that although no alteration has been made in the time for calling out the militia from its first formation, it would appear somewhat strange that we had not found out the grievance until now; but it is well known that the expenses of the occupation of land having so much increased of late, and appear to be continually moving in the same direction, that we must endeavour to look seriously into the matter, and see when and where we may lay out our money to any advantage. I wish to have it understood that I am not raising the question because I entertain a dislike to soldiers of the militia or any other of the forces, for I have been in the volunteers myself; and it is my opinion that every man ought to be trained as a soldier: it teaches him to obey command, it teaches him respect to superiors, and it teaches him to defend his country. I now come to the third and last part of my subject—that is, as to how far and in what way the public are interested in the matter. If, therefore, it is to be shown that the daily bread or meat of the public is in any small way affected, increased, or diminished by the time of calling up the militia, our time will not have been wasted. Many of you have read what Swift said in his "Gulliver's Travels;" he gave it for his opinion that "whoever could make two ears of corn or two blades of grass grow where only one grew before would deserve better of mankind, and do a more essential service to his country than the whole race of politicians put together." How, then, is this to be done, if done at all, without the aid of labour, in addition to favourable weather? If we cannot have the advantage of the labourer at the proper time, the spring work gets behind, and the whole of the machinery of farming is thrown out of gear; and, again, the root crops suffer, which must necessarily affect the meat of the public. Surely this is worthy of some consideration by us all. I have endeavoured to condense my ideas upon the subject as much as possible, in order to give time for the next very important discussion upon the paper, which is one of great interest. I thank you for the attention you have given to me. One class of the community is still left untouched, that is the officers of the militia regiments; although not a large body of men, they are an influential and important one. What shall we say to them? We will ask them to give us some good and valid reason for not interfering with their arrangements, failing which I am of opinion that they should be prepared to make some sacrifice for a public good, which I hope to have succeeded in showing would result from some early month—about February or March—being appointed for drill. I conclude by proposing "That the chairman be requested to present a petition from this Chamber to the Secretary of State for War, praying that he will take into consideration the advisability of appointing a more convenient month for calling out the militia."

In answer to a question Mr. PERTWEE fixed March as a more suitable month.

Mr. T. S. WESTERN said he had no objection to that proposition, and thought it very harmless in its way. The Lord-Lieutenant was asked to ascertain the time least inconvenient to the county of the six summer months. The answer was sent to the Secretary of State, and it was generally found that about the end or middle of April was the most convenient. That was a time when the militia were called out all over England, and he presumed, generally speaking, it was thought the best time of the year for the farmer. He mentioned that they were only on duty 28 days each year, and it would be the object of the Government perhaps to have them in training on the long days to give them as much drilling as possible. He thought they ought to name in that statement some time and get opinion as to that time.

Mr. HEMPSON, as a practical farmer, considered labour was in quite as great demand, and even more so, in March than in April. If they had a dry March they wanted all the hands they could get.

Mr. W. M. TUFNELL said if that resolution was to stand there should be some discussion upon it, and some conclusion arrived at on the part of the meeting, because if that resolution was to have effect with the authorities it should receive

the unanimous voice of the Chamber. They must expect that that would not be an isolated representation, but would be followed or accompanied by others throughout England. He thought they were bound to come to some decision as to what time they considered the most convenient to call out the militia. Two opinions had at present been given. Of course they must expect the authorities would not be able to take exclusively one view or other. They would say they would be very glad to hear what in their opinion was the time when labour could be most easily dispensed with, but they must bear in mind the exigencies of the service, and the time when the military operations could be best carried out.

Mr. BROWN said the most suitable time to the farmer would be February. He quite thought with Mr. HEMPSON that March was one of the most important months of the year.

Mr. PERTWEE said he should have suggested February, but he did not like to go so far.

It was suggested any month between October and March. They should be called up in one of the four short months.

Mr. JOSEPH SMITH said he generally held a different opinion to other people, and perhaps he did on that subject. He looked upon the militia movement as an unmitigated evil from beginning to end. It was injurious to the morals of the men, injurious to the farmers, who could not spare the men, and he thought it was injurious to the ratepayers, who had the responsibility of caring for the wives and children of the men while away. They left the training worse men than when they went up, and were a nuisance when they came home, demoralising their fellow-workmen. That was the result of observation he had been able to make during 20 years. He believed it altogether opposite to the spirit of the New Testament, which they professed to uphold.

Mr. BRANWHITE quite agreed that the month of March was inconvenient for calling out the militia, but they must leave the time very much in the hands of the Secretary of State for War. The long days and fine weather might be preferred for their training, but if they wanted to train a man to make a soldier, and accustom him to hardships, the winter months would serve the purpose. The men seldom commenced duties until seven in the morning, and left off at five in the evening, and a short day would suffice for that. With Mr. Smith he did consider that the militia tended to demoralise their agricultural labourers. And if the Government did not support this force so much, but extended a little more favour to the volunteer forces, he thought it would benefit the country in every respect. Most of them connected with boards of guardians had perhaps received a singular circular asking the boards to petition Parliament to amend an act relating to their agricultural parishes. The section to which he referred freed every soldier from the responsibility of illegitimate children, or of his wife and children, and they could not recover a debt from a soldier beyond a certain sum. The militia and even the volunteers might be brought into this category, for if an officer attached to his forces a militia or volunteer regiment they could then enjoy the same immunities. It was hard that the ratepayers should have to support the families of the men while in training, which was often the case. At the next meeting he would bring forward that subject, and petition Parliament to have it altered. In conclusion he said that either of the four winter months would be far more preferable for the training of the militia.

Mr. WEBB proposed an amendment to the effect that they be called out between the months of October and March.

Mr. BRANWHITE seconded this.

Col. BRISE said he would not occupy the time of the meeting in answering Mr. Smith, for it was known he took a very extreme view of that question, as he did against standing armies and military men of any kind. What had been said by Mr. Branwhite deserved some consideration. First, he said the militia was demoralising to the agricultural community. He (Col. Brise) did not mean to say the militiamen, as a class, were superior to any men in the same position of life, but he did say that Mr. Branwhite's argument would have been much more true if uttered fifteen or twenty years ago. For upwards of twenty years he had commanded a militia regiment in that county, and he had seen—and every one had seen—a most visible improvement in the condition and habits of the militiamen. He contended they were very much improved, and although there might be exceptions, the great majority were most respectable men, and respectable members of the community. The system of the

militia had nothing in it to demoralise a man, and if any were demoralised they were demoralised before joining the regiment. Referring to the remark of Mr. Banwhite as to the expense entailed on the ratepayers, the gallant colonel said that expense was quite unnecessary and not required. The pay of a militiaman averaged 15s. per week, and he could see no reason why they should not be able to maintain their families as well as when they were at home. He quite agreed with Mr. Pertwee's resolution, and he should be very glad if the Government would have them out earlier. He had always endeavoured to ascertain the feelings of the people as to the best time, and he recommended to the Lord-Lieutenant that it should be earlier, but the interests of the Government, and the interests of the State, and the interests of the agriculturists were at variance, and they must have the men out on the longest days. They would not call them out in October, November, or the short months, and they said the only time was the six summer months, and they said they wanted to know which month was the most convenient to them. They had great difficulty in preventing many regiments being called out in hay time and harvest. As far as he could gather no time was more suitable in the agricultural districts in those six months than April. If it was the wish that the resolution should be carried, he should be most happy to support it. It would always be his desire to stand up for the agricultural interest, and do what he could for the ratepayers, and he would do what he could to have the militia trained at the most convenient season to them.

The Rev. F. A. S. FANE asked whether a militiaman received 14s. or 15s. per week in hard cash, or how much was available for his wife and family?

Col. BRISE: A good deal of it, but he said he did not know how much.

Mr. FANE said as the cost of the wives and families too often fell on the boards of guardians they wished to ascertain how much they could spare to keep their wives and families at home.

Colonel BRISE mentioned one case in which a man, when spoken to by him, offered to send home 7s. or 8s. per week.

Mr. FANE: We have no power to make them pay that.

Colonel BRISE: You can recover a loan.

Mr. Welsh withdrew his amendment, and Mr. Pertwee's resolution was put in the following form: "That the chairman be requested to present a petition from this Chamber to the Secretary of State for War, praying that he will take into consideration the advisability of calling out the militia on one of the four winter months," which was carried.

Mr. HILLIARD read the following paper on Land Tenure: It occurred to me while listening to the able discussion upon the free transfer of land which took place in this Chamber in the spring of this year, that the question of the tenure of land was full of interest and of great importance in the present day; and moreover, as it is a question now engaging much public attention, I thought it should be considered by this Chamber, and having so expressed myself to a member of your council, I am before you to-day to open the discussion with a short paper on the Tenure of Land. I certainly did not thus expect to be taken at my word, and I venture therefore to ask your kind indulgence. I do not propose to go back to the early history of the tenure of land; to the age of feudalism, when the nobles and proprietors formed one part of the community and the retainers and dependants the other portion; which latter existed only on the charity or will of the higher grade and were merely the slaves of the lord; but rather to confine myself to the question as it affects us in the present day. In treating of this question, I wish to say at the outset that I entirely deprecate any movement which would tend in any degree to militate against the position of the landlord as owner of the soil, or curtail those privileges, rights, and advantages which now justly attach to his position as such. I look upon the resident landed gentry, when alive to their privileges and duties, as an immense power for good in this country, and I should be the last person to advocate any movement that would lessen their true and legitimate influence. I think it right to say this much because there has been in some quarters a disposition to endeavour to set class against class, and a desire to insist upon the rights of one irrespective of those of the other—a line of action I hold to be altogether reprehensible, for if there be one thing imperative in the consideration of this question it is that it should be divested of all class interest, and approached in a fair, unbiassed spirit, seeking to arrive at

such a conclusion as shall be fair, equitable, and satisfactory to both landlord and tenant. We have, then, the landowner in possession of the land, and which he is either unable or unwilling to cultivate himself, and we have the tenant who is willing to occupy and use such land, and by the application of skill and capital to become the manufacturer of food for the community, and the question for our consideration is, under what terms and conditions such a relationship can most satisfactorily exist. Land is for the most part held under lease, or yearly agreement, or from year to year without an agreement. There can be no doubt in the present day that successful farming is becoming more and more a question of the judicious application of sufficient capital to the soil, and the old calculations as to the necessary amount of capital per acre are much below the mark, and when we call to mind the amount of capital employed in agriculture we may realize the magnitude of the question, and the importance and desirability of arriving at some conclusion as to what is the best tenure for all parties interested. I propose first to consider yearly tenancies, either with or without agreement. It is contended by some that a yearly tenancy is the best arrangement for the landlord, and, with compensation clauses, not against the tenant. Some of the apparent advantages of a yearly tenancy to a landlord I presume may be taken to be the following: 1st. A bad tenant can be easily got rid of. 2nd. Should the owner desire to sell his land he can more readily do so with possession. 3rd. It is contended that under a yearly agreement a landlord retains more control over his tenantry generally, whether for political, social, or local influence. It must be admitted that there is some truth in the first two propositions. In answer to the first I would say, don't accept a bad tenant, be more particular as to the class of man you take, for after all it is the man of character and capital that is wanted, and having secured such a tenant there will be no desire to get rid of him. 2ndly. An owner contemplating an early sale would not be disposed to let his land; and 3rdly, I cannot believe that a landlord's influence at all depends upon the terms of the holdings of his tenants; but to be an influence worth having, it must be based upon a much sounder foundation than yearly agreements—namely, the respect which worth of character only can command. As to the advantages to a tenant of a yearly tenancy, I confess I cannot enumerate them, except there may be one, and that is he can give a landlord notice to quit, and so get out of a bad farm; but of the disadvantages I know something, and by way of illustration I would put the following case of a yearly tenant who is farming under an agreement which entitles him to compensation for unexhausted improvements upon quitting. He took his farm out of condition, he has drained it, kept a large quantity of stock upon it, consumed cake and corn upon it, and by good management, coupled with a large outlay of capital, has brought it into a first-rate state of cultivation. A misunderstanding arises between the landlord and himself and he receives notice to quit. Will any one contend that under any ordinary system of compensation he can fairly be recompensed for his outlay? Will any one assert that any valuer can obtain for him any adequate compensation. I believe it to be impossible, and so the tenant vacates his farm leaving his capital in the land to benefit the landlord, who will get an increase of rent, and also the succeeding tenant, who will reap the fruit of his predecessor's good farming. A yearly tenant has no security, and therefore has no inducement to employ his capital in an undertaking from which he may at any time be expelled without any adequate remedy, and I have never yet met with a scale of compensation that can fully meet the case of a yearly tenant compelled to leave a farm which he has been cultivating highly. Having briefly considered yearly tenancies I proceed to the question of leases. Some of the advantages of a lease to a landlord I believe to be the following: He secures a tenant for a term of years, and so is relieved from the annoyance and trouble of frequent changes; he also secures, or he can or should secure, men of character and capital who are willing to invest money in his property; he can bargain under his lease that his land shall be well cultivated and the buildings and premises properly repaired, and his estate consequently improved. It saves the landlord from finding the capital for the necessary cultivation and improvement of the land; and generally ensures an increased rental at the end of the term; and it contributes to the establishment of a good understanding with his tenantry. The advantages of a lease to a tenant is first of all security, an

assurance that he will have a chance of getting some return for the capital and skill he has invested in the property of another. It enables him to secure a business and a home for years, and to form those associations in connection therewith which are ever dear to Englishmen. It induces him to take an active interest in local affairs, and so begets an interest in and attachment to the neighbourhood where he resides. It secures him from undue and unfair interference on the part of the landlord or agent, and it gives him a freedom and independence which he cannot enjoy under any other kind of tenure. Such briefly are some of the advantages of leases. I am quite aware that upon some of the hereditary estates of England leases are unknown, and that upon them tenants have lived in the same farms for generations, and a good understanding has always prevailed, greatly to the honour of the owners, but such cases are exceptional. There are noblemen of the present day, such as Lord Lichfield and the Earl of Leicester, who have recognised the right of their tenantry to have security for their capital, and have done a great service to the tenant-farmers of England, in not only advocating leases, but in giving much time and thought to the form of leases they have prepared. Sir John Pakington, addressing the Worcester Chamber of Agriculture, not long since upon the subject of the tenure of land, said what the farmers wanted was security, and the honourable baronet expressed in the word security exactly what the tenant-farmers require. And I ask, how can that security be given but by the granting of leases? You may tell me that in dealing with gentlemen a yearly tenant is quite safe. He may be so as long as no difference arises. But should the man who finds the capital, the energy, and skill to improve the property of another be in such a position? Is he not fairly entitled to say, "Give me some assurance that I may have the time and opportunity to repay myself for the outlay I am going to make." I assume you have gathered before this that I am the advocate of leases, and as I shall conclude with a resolution to that effect, I perhaps ought before I conclude to say a few words upon the subject of leases generally; but before doing so I desire to say there are certain exceptional cases where it would not be desirable to grant leases. I allude to parks and other lands, which immediately surround a mansion; for obvious reasons an owner would prefer that such lands should be held from year to year. I am the advocate of leases because you cannot give tenants such security as they are entitled to have in any other way. If it be admitted, and I do not think the proposition can be disputed, that the basis of successful farming is the judicious application of capital to the land, then I contend, if you expect men of character, with money, to invest it in the soil, that soil being the property of others, you must hold out to them some reasonable hope that they shall enjoy for a certain time the possession of the land, and give them the opportunity of obtaining in the end a fair return for their outlay. First, then, as to the term. I think this should not be less than 14 years, perhaps 21 years would be better, and for this reason, that a tenant with such a term would have a reasonable time to recoup himself for the outlay of capital made at the commencement of the occupation, and with such a length of term there would be no necessity to import into the lease compensation covenants for unexhausted improvements. I confess I see some difficulty in establishing a right to compensation for unexhausted improvements under a lease, and therefore I advocate the longer term. But I am strongly of opinion that where only short leases or yearly agreements prevail, there should be liberal compensation clauses for improvements; not that I think they will meet the question, but they would be some guarantee to the tenant that he would get some allowance upon a forced quitting of his occupation. In letting farms we are met every day with this observation: "Give me a good long lease and I don't mind draining this field or making that road, or putting up a new shed, or other improvement." And it appears to me to be in accordance with common sense to offer a man good security before you ask him to part with his money. I am further the advocate of liberal covenants, that a tenant should be allowed to farm in accordance with good husbandry during the lease, except in the last four years of the term, when the four-course system should be enforced. There should be a clause to entitle the landlord at any time during the term to the right of going on and seeing as to the due cultivation of the farm, with a right of compelling a reference to arbitration if the farm be not properly used, giving the arbitrator power to put an end to the tenancy upon

sufficient grounds, and in his discretion, with damages. The tenant would have liberty of action and the landlord would be protected; and with the farm managed on the four-course shift during the four last years of the term it would be left in a proper condition for re-letting. Here let me repeat that which I have slightly alluded to before—namely, that the selection of the tenant is the most important question after all. Your lease or your agreement will be but a poor security against a bad man. Secure men of character and capital, and, having got them, deal with them liberally. With such men you need not fear if you find your land drained, and with plenty of well-fed stock upon it you need not consult the covenants of the lease. A tenant cannot damage a landlord without himself suffering loss; and if due care be exercised in the selection of the tenants no landlord need withhold a lease. There is one question in connection with this subject that I desire to draw especial attention to, and that is the negotiation for re-hiring of farms under lease. I think it would be most desirable to entertain the question of the re-hiring of a farm under lease much earlier than it is now the practice to do. I think it should be entertained four years before the expiration of the term, for the plan of putting it off until the last year is altogether bad. Of course with a bad tenant the question of re-hiring would not arise, but with a good tenant it would be most desirable to agree for another term, and it would obviate the careless niggardly management that often occurs towards the end of a lease; and which a tenant in many cases is forced to adopt because he does not know whether he shall continue the occupation at the end of his present lease. It would be no obstacle to the landowners obtaining an increase of rent if circumstances warranted it, and it would, I think, in a great measure prevent the present system of a tenant taking all out of the land before the expiration of the lease for fear he should not have the farm again. As to whether such an engagement could be incorporated into a lease for the sake of security to the tenant I am not prepared to say. I throw out this suggestion, as I venture to think it not an impossible way of providing against a difficulty. The question of game must of necessity be considered in settling the terms of a lease, but as this question has been debated in this Chamber I will only make a passing allusion to it. I hold that a proprietor has an undoubted right to retain the sporting over his own property; but then if he will keep a large head of game to be destructive to the tenant's crops I think he must adopt one of two alternatives—either grant a very liberal compensation clause for game damages, or release his tenant, and farm the land himself. It is the unfair, immoderate preservation of game for *battues* that tenants object to, and not without reason; but where only a fair head of winged game is preserved (the tenants having the right to destroy rabbits) I have scarcely ever found any difficulty. There are many other considerations bearing upon this important subject which might be noticed, but as this short paper is intended only as introductory to the discussion, I do not propose to take up the time of the Chamber any longer. Indeed I have already, I fear, taken up too much time in opening the question for discussion to-day. I have only to apologise to you for the very imperfect way in which I have done so: indeed they are only a few thoughts jotted down in the midst of pressing business occupations. I have further to thank you for the patience with which you have listened to me. In conclusion, I would say briefly I advocate the letting of land upon lease, because I believe leases are advantageous both to the landlord and tenant—they are the best means of securing to the landowners the best class of tenants, men of character and capital, and so improving their estates; and I believe they are the only means whereby the tenants can obtain real security for the capital and skill they invest in the occupation of land. I beg to move the following resolution:—"That in the opinion of this Chamber it is desirable that land should generally be let upon lease."

Mr. PERTWEE seconded this.

Mr. HEMPSON said Mr. Hilliard had left out one thing. They would agree with him that if the public were to be fed—if more corn and more meat was to be produced, it must be done by lease. A man felt afraid to invest his capital under the present state of tenancies. After referring to the present unsatisfactory conditions of tenancy, he said they were subject to disadvantages not experienced in commercial and other matters. As a rule valuers of land knew nothing of

the nature of the soil, whereas when men valued for other trades they knew their business.

Mr. W. E. BEAR said Mr. Hilliard by his resolution had placed them rather in a difficulty. They must have compensation for unexhausted improvements, which Mr. Hilliard did not seem to entertain at all in his paper. When he came there he did not suppose the resolution would contain everything he could agree to, but it did not go far enough. He drew up the following amendment: "That in order to secure to tenant-farmers their property invested in the estates of their landlords, and to encourage them increasingly to develop the resources of the soil to the benefit of landlords, farmers and consumers alike, it was necessary that notwithstanding any contract or agreement to the contrary the outgoing tenant should be entitled by law to compensation from the landlord for the unexhausted value of all improvements effected by him during his tenancy, and that on the other hand he should be liable for any deterioration caused by his mismanagement or neglect; and this Chamber further desires to suggest that, in order to preclude a possible point of dispute the word 'improvement' shall be defined to mean anything which increases, and 'deterioration' anything which diminishes the letting of a farm." If Mr. Hilliard would consent it might be put as a rider to his resolution, as something further than leases was wanted. Leases had been tried for generations, and found to be wanting. [Mr. Bear was about to read some arguments, but this being questioned by Col. Brise, the chairman ruled that, unless in introducing a subject, all arguments must be orally advanced.] Mr. Bear continued that Mr. Hilliard thought leases would be quite sufficient to indemnify tenant-farmers for all expenditure. The system was very well as far as it went, but he argued that unless supported by a provision for compensation it failed. A man generally took a farm, perhaps for twenty or fourteen years, in a poor condition. The first four years was spent in getting it in good condition, and during the last four years he exhausted the soil of what he put on it. So in that fourteen years the land was producing more than half the time much below what it might be under the most favourable circumstances. He had never met with any compensation sufficient to pay a tenant for the improvement made. What they wanted was to have a scale of compensation fixed by law for improvements made. He argued that a long lease would not meet the case, and they could not always get a renewal of a lease four years before, and therefore, as John Patten recommended, they wanted compensation.

Mr. HILLIARD declined to accept Mr. Bear's proposition as a rider. Compensation for unexhausted improvements was no part of what he was asked to consider. What he dealt with was the tenure of land. He had provided for unexhaustion of the soil by the hiring four years before, and if they were farming well they would have no difficulty in thus hiring.

Mr. BEAR intimated that the Central Chamber would consider the question of compensation at their next meeting, and if they did not send them a resolution that day they would not know the opinion of the Essex Chamber. If Mr. Hilliard would not admit that as a rider to his resolution he should submit it as an amendment, believing it even more important than the question of leases.

Mr. YOUNGMAN asked whether they could not vote upon Mr. Hilliard's resolution, and then have a resolution of Mr. Bear's afterwards, but the chairman ruled that it could only be put as an amendment, as notice must be given of an original proposition.

Mr. SQUIER seconded Mr. Bear's amendment.

Mr. HART thought if Mr. Hilliard could get them such a lease as he advised it would be settled at once, but he was afraid they could not get all those rights as tenants. After speaking of legal compensation, known in other counties as Tenant-Right, he said the question was, what were they to do when they could not get such a lease as Mr. Hilliard recommended? The word "security" comprehended it all. The commercial man must have security, but under the system of leases they were denied it in Essex. He advised that leases should be supplemented by what worked so remarkably well in other counties—Tenant-Right, by which they could recover for improvements effected on the farm. Mentioning that the bulk of the county was composed of heavy clay, he said the cultivator did not think of getting more out of the soil than by mere surface draining. Near the large towns, where the soil was more highly cultivated, the old custom was really

working into a sort of Tenant-Right. Under the present system, as a man went in a farm so he must come out, or if he left it in a better state of cultivation he lost the benefit of it. He held that if they could establish that system of Tenant-Right so far as unexhausted capital was concerned it would be of great benefit. At present, the first four years they were engaged putting on the land and the last four in exhausting it. The circumstances of the time did not allow that they could keep the soil in an improved state. Under their usual lease tenants did not make that improvement that they would wish to make as occupiers. The question was whether they could get the necessary security for unexhausted improvements in any other way than by compensation. Speaking of the granting long leases, he thought the owners of the soil would have a reluctance to part for so many years with their land, and he thought it would be well to incorporate in the lease a condition by which the owner and cultivator could mutually agree to a two year's notice to terminate an agreement, and in the long run it would act very beneficial to them.

Mr. PASH objected to the remarks of Mr. Bear that the question of compensation should be considered by Mr. Hilliard in his paper. Mr. Hilliard kept with great closeness to his subject on the tenure of land, and the brevity and clearness with which he gave them his opinion as to the best form of tenancy was entitled to the greatest consideration, for from his extensive practice and his knowledge of the farmer's business he had great opportunities of judging. Mr. Pash then referred to the position a tenant would be placed in if a farm which he held should be sold and if no arrangement could be come to between the purchaser and the tenant. He took the case of a man about to hire premises that needed a great deal of capital laid out on them, and argued that a landlord should not let premises in a tumble-down condition unless he gave the tenant a lease to recoup him for any money laid out. That was the plan he thought should be adopted in farming. They ought all to be in favour of leases, but as to compensation it rested entirely between the person hiring and the person letting. It would be an infringement upon a man's property that he should be obliged to let his farm subject to Tenant-Right. It would be very bad for a landlord to pay what might be improvements on a tenant leaving, but which he did not want at all.

Mr. SMITH said Mr. Hilliard recommended a lease which all would be glad to get and farm upon. It was very good as a recommendation, but was impossible to be carried out. They could not get a renewal of lease four years before it terminated. Therefore unless there was some system of compensation he felt that that subject would be rather imperfectly handled. In the interest of the tenant-farmer the tenant should be paid for any permanent improvement either in the shape of increased charge of rent or in the permanent value of the premises. Land had wonderfully improved during the last 30 years, which, he contended, was almost wholly due to the energy and intelligence of the tenant-farmer and not to the owner. They ought to look at it rather more from a tenant's point of view. He continued that landlords and tenants should feel that they rowed in the same boat, and it should be the interests of landlords to secure good tenants, and not to interfere with them in the way they often did. He did not think the subject would be thoroughly handled unless something like a rider was put to the present proposition of Mr. Hilliard's, to the effect that the tenant should be repaid for what permanent improvements he had made at the termination of his lease. He also spoke of the system of high farming the first few years, and the plan of exhaustion at the latter part of the lease, and urged that this should be guarded against by the tenant feeling that he would have a claim on the money he had expended.

Mr. BARNARD did not see that they should expect compensation. If they bought bullocks they would not expect compensation if they went down with the foot-and-mouth disease. He argued that when tenants had the offer of a farm they thought it a favour, they were afraid to speak their minds, seemed as though they must accept the offer, no matter on what condition, and so they made bargains. They did not go about it in a business way, and he did not believe compensation would make any difference.

Mr. HOLTON asked whether if they laid out some thousands of pounds on acres of land were they to receive nothing of what they had laid out. He referred to householders who were paid for an increase in the value of the premises they

occupied, and why should not the same consideration be awarded to holders of land? Saying he did not believe altogether in voluntary acts, he thought if some fixed system was arrived at it would be better for them.

Mr. WELSH asked if yearly tenants could not be paid for improvements, and if so were not long leases unnecessary. He preferred a yearly tenancy if they got a good landlord. [Cries of "If, if."] He and his father and grandfather before him farmed on a yearly tenancy.

Mr. YOUNGMAN felt somewhat the difficulties of Mr. Bear. He did not wish to say one word against the proposition, but they wanted to go a little further. They would have to get compensation. They were told they were freemen, and might make any bargain they liked. Of course they might, but he held that inducement was for the tenant to expend his capital on the land, and with an ordinary lease he had no power of getting it back. A man had no more right to the money of a tenant there than if he put his hand in his pocket. There were landlords who would grant compensation. A compensation clause was wanted to protect the men against landlords, who would injure the tenants and injure the country, and they wanted the greatest amount of protection possible. The country wanted everything that could be produced. With a thorough compensation clause more than half the farms of the country would produce more than they now did. There were specimens of good farming in the country, but a man would be a fool to farm as Mr. Mechi did if he were to farm without a provision for compensation. How was the country to be fairly treated if the land was to be held under the old feudal system?—under conditions which limited its production, while at the same time the tenant stood at great expense. How was it possible for agriculturists to go on contentedly? The tenants wanted protection. They had been cautioned against setting class against class, and he hoped they would take care to do nothing of that kind. There was nothing in the shape of setting landlord against tenant. A reasonable compensation clause would be of advantage as much to the landlord as to the tenant, and also to the country in meat and corn. The country could never have the full benefit from the land without such a clause. Of course they had liberty to a certain extent, but how little liberty they had as a class to use their own common sense in hiring. They had heard much about liberty, but it was a mockery without that liberty was established at the fountain head. So long as there was such a monopoly of land no leases or regulations would be found sufficient. They must have a legislative protection. He did not mean to say anything against landlords. The country wanted all they could produce, but the tenant was not in a position to do that, finding he could not recoup himself towards the close of his lease. Farmers farmed up for the first period and down the last of their term of lease, and damaged the land perhaps irretrievably for the next tenant and for the country; and he thought that a good reason for a compensation clause, by which no landlord would be the worse and the country would be the better.

Mr. J. S. GARDINER thought if they had compensation added to the lease they would have nothing to object to. He was quite satisfied that the compensation added to the lease was quite necessary. Cases occurred before their eyes day after day of estates being sold, yearly tenants existed upon these large estates, and they had to quit on six months' notice, the tenants were turned adrift, leaving perhaps the bulk of their capital behind. They wanted legislation to prevent that system of robbery, for he maintained it was a system of robbery. After reminding them that he once introduced the question of Tenant-Right to the Chamber, on which a resolution was passed unanimously, he said there must be some enactment to give the tenant a claim against the landlord for any funds he might have spent in the improvement of his farm. A farmer might put money on the soil, knock down fences, and bring waste ground into cultivation, and yet he had no claim to compensation. It was all very well to say that they had opportunities of making a bargain, but the tenant was taken at a disadvantage; he was not on an equal footing, and so not in a position to demand just and equal right. He urged that unless they had a compensation clause the owner had the opportunity to say, "If you don't like to take it on these conditions some one else will." That enabled him to carry a lease highly objectionable.

M. TUFNELL would have been more satisfied if a clause regarding compensation had been added to the resolution. He

thought Mr. Hilliard gave a very good reason for not making any mention of compensation at present, because he had given some consideration to the subject, but had not been able to make up his mind as to how it should be arranged. Mr. Tufnell thought the question should now be left for future discussion, for it was much better that their resolution should be confined to what Mr. Hilliard had mentioned. A lease was desirable, and they had had a very interesting discussion, but he thought the proposition was sufficiently far to advance on the present question, although there was much to be said to the observations of Mr. Bear and others upon the question of giving security, and he thought it a good suggestion for future discussion. Regarding Mr. Welsh's question as to compensation to yearly tenants, he (Mr. Tufnell) thought it impossible to ensure such compensation to a yearly tenant. Speaking of the general system of leases for 21 years, he said landlord and tenant might be on perfect good terms, but in that long time lives might pass away, and others intervene and make it inconvenient that they should continue together. He agreed that the present system of leases was unsatisfactory, and they wanted something by which the whole system might be arranged on a satisfactory footing. He agreed with Mr. Smith that tenants had employed their abilities in improving the soil in the face of difficulties and disadvantages, but the landlords might be credited to some extent with doing their duty in the matter. He accounted for the improved value of land by the general prosperity of the country, whereby people had made money, and when a man had money he had a natural desire to get land. It was attributable to the increase of the number of men with money.

Col. BRISE said they all wished landlords would come up to the principles recommended by Mr. Hilliard, and if they did they would hear no more of that subject and nothing further of any compensation for the improvement, but because they were intolerant and independent landlords that question of Tenant-Right had arisen. They were not there to discuss that question to-day. He was most anxious to hear what Mr. Bear had to say, as he knew he had written an able article on that question in the *Fortnightly Review*. Mr. Bear talked of vitiating an agreement between landlord and tenant in proposing to override any private agreement. So far he should disagree with him. He agreed that compensation should be given, but advised the institution of local courts of arbitration for the county to which tenants could refer on leaving their occupations.

Mr. SMITH explained that he had no intention of making any remarks offensive to landlords, but the land had increased in value from 30 to 40 per cent. largely through the industry and intelligence of the tenants.

Mr. BEAR denied that he wished to set landlords against tenants. What he advocated was as much for landlord as tenant, and they would have seen that had he been allowed to read his paper. He contended they left out the essential part of the question if they left out compensation.

The CHAIRMAN said with regard to the militiamen, some of the men had 20s. to 30s. to take at the end of the training, besides their weekly pay. With regard to the question of land tenure, he advised that Mr. Bear should submit his subject of compensation for discussion at the next meeting.

Mr. HILLIARD having replied, Mr. Bear, at the request of the members, withdrew his amendment, and promised to bring it forward at the next meeting, and Mr. Hilliard's resolution was then carried.

THE FARM LABOURERS' MOVEMENT.—A great scheme is in preparation by some friends of the agricultural labourer, who despair of any really satisfactory settlement of the land question in England, by which immediate practical and most attractive facilities will be provided for the emigration of at least half a million of the cream of our agricultural labouring population. A band of labourers left Leamington this week for New Zealand, and another batch is ready for Queensland, making between 200 and 300 who have emigrated from this town during the last few months.—*The Labourers' Union Chronicle*.

A FARMERS' UNION.—The Kentish farmers are establishing a County Farmers' Union, for the purpose of "taking combined action in self-defence, and to protect any non-union labourers from intimidation." This step has been taken in consequence of "the threatening aspect presented by the Agricultural Labourers' Union."

EAST SUFFOLK CHAMBER OF AGRICULTURE.

At a meeting at Ipswich, the President, Col. Tomline, M.P., in the chair,

Mr. W. S. GRIMWADE proposed that a grant of £5 be made from their funds to the Home Cattle Defence Association.

Mr. CORRANCE seconded the motion, and said that he knew Mr. Waller very well, and was also able to speak to the good which the Association had done. He could not, however, understand why the Association had not passed away with the cattle plague. If continued it had, no doubt, some very useful work before it.

Mr. H. BIDDELL said he also could not understand why the Home Cattle Defence Association had not ceased when the Chamber of Agriculture was formed. The Chamber was the proper Cattle Defence Association. If it was to depute one portion of its labours to a Local Taxation Committee, another to the Malt-tax Committee, and a third to a Cattle Defence Association, what reason had it for its existence? His belief was that if Mr. Waller threw his energies, so well directed, into the work in connection with the Chamber of Agriculture the benefit must be much greater. However, he had no doubt that Mr. Grimwade had thought the matter out very carefully, and although £5 notes did not roll in so fast but that the Chamber could find use for them, he (Mr. Biddell) should not offer a decided objection to the proposal.

Mr. CORRANCE said the Central Chamber of Agriculture had not done this particular kind of work.

The SECRETARY, Mr. Everett, said he thought it a pity the Central Chamber of Agriculture should remit work of this kind to other special organisations, but there was no doubt that a Home Cattle Plague Defence Association was very much needed.

The motion was then put, and carried by five votes to four, many members declining to vote.

The next subject was Tenant-Right, and the resolutions that had been sent from the Central Chamber were read.

Mr. GEORGE JOSSELYN directed the attention of the Chamber to the latter clause of the first resolution with reference to buildings, drainage, and other improvements. There was a Statute, 14 and 15 Vic., by which tenants erecting buildings or machinery, with the consent of the landlords, at the expiration of their tenancy, the same became their property, subject to the first offer of them being made to the landlord. He thought the Chamber, in discussing a matter of this sort, would like to be aware of this fact.

Mr. HERMAN BIDDELL said he feared it might be some time before any one would move these resolutions as a whole. There was one point to which he wished to draw the attention of his brother tenant-farmers, and that was whether they were willing to make themselves liable to pay their landlords for the depreciation and dilapidation of their premises. That was an item which would be rather heavy whenever a change of tenancy took place. He had mentioned the matter at the Central Chamber in London, and he felt that they did not see the full force of all they were asking for. It might be the case that a tenant who was going out might have been neglected by his valuer when he took possession, and the valuer for the incoming tenant would say, "I don't care how you came in; you subjected yourself to pay for deterioration and dilapidation." He apprehended that valuations under these circumstances would be very heavy. They saw how this worked in the case of the clergy who had to pay heavy sums for repairs. A glebe barn might not have been repaired for 40 years and only fit to be pulled down, yet the clergyman going out of possession had to repair it, whatever the cost. Farmers would put themselves by these resolutions in some such position as that.

Mr. W. GURDON said he thought an easy agreement might be prepared so as to enable the tenant to recover the value of all unexhausted improvements. His own lease might be thought a peculiar one; it was simply a four-years' agreement with a four-years' notice. A tenant under that could, after receiving notice, have four years to work out all that he had put into the land. In Lincolnshire and Nottinghamshire the customs were certainly extraordinary, and amounted to a heavy mortgage on the land. In Nottinghamshire, in cases of a lease, the outgoing tenant, suppose he went out at Michaelmas,

was entitled to the wheat crop in the following year. In Suffolk, the crop of wheat was not taken, but they had to pay for a crop of turnips whether there was any or not. They paid for ploughing, &c., but they had no guarantee that there was a crop. Mr. Gurdon also insisted upon the necessity of making clean farming a cardinal if not the only point to be secured by agreements between landlord and tenant. He had had to pay £100 in three years for drawing docks from land on a farm of 200 acres that had been neglected. He advocated the drainage being done by the landlords, and hinted that it might be rather difficult to value the artificial manures, if they were like some which they had heard of recently from Hull.

Mr. W. S. GRIMWADE said it seemed to him to be important and highly desirable that something more definite than these resolutions should be drawn out. He expressed a decided preference for Mr. Long's amendment. When he took his farm 30 years ago, he could not get a lease, but he took care to obtain a covenant giving him the right to claim compensation for unexhausted improvements. This again was rather a difficult point; it was not easy to say what were unexhausted improvements. He had referred to old leases under the Marquis of Cornwallis which were in force in Suffolk from 50 to 70 years ago, and found in them covenants for unexhausted improvements. Amongst other things defined were claying and under-draining, which had been done within four years of the end of the term. Mr. Grimwade recommended that along with a covenant giving compensation for unexhausted improvements there should be a defining clause, as, otherwise, there might be great difficulties.

LORD MAHON, M.P., about the actual line to be drawn with reference to permanent improvements, would not say much, because his (Lord Mahon's) experience of Suffolk was very restricted. He had, however, had some experience with regard to Lincolnshire, and he took part in the discussion at the Central Chamber when the resolutions just read were agreed to. He preferred the first resolution to the second, because, in the first place, he did not think we wanted any Legislative interference on the subject. There was legislation about too many things; and he thought, as Mr. Grimwade had said, that any man who had got his wits about him could make an agreement to his own advantage. If a man saw that it was not likely to be a favourable agreement to him he was not at all obliged to enter into it. He would not bind himself to anything, because he did not know what Mr. Howard intended to bring forward. At the present time, however, he did not think legislation was required on the subject. It was impossible, in his opinion, to draw a limit which would be applicable to every county. Farming in Devon and Cornwall was very different to Suffolk. Lincoln and Yorkshire again differed considerably, and it would be extremely difficult to draw up a schedule of what were and what were not improvements, and the scale which was to be fixed to pay for those improvements. But at the same time he thought most strongly that compensation was required for those unexhausted improvements, and he believed that it was the custom in this county that it should be so. Of course it was for the interest of the landlord, if there was a lease, to see that in the last four years the farm was not allowed to run out, but it could not be expected that the tenant would keep the farm unless he was sure that at the end of the lease he would receive compensation for improvements which were not exhausted. He thought the advantage of meeting there and discussing the case was that the landlords eyes would be opened to the necessity of making provision for these agreements. Another reason for preferring the first to the second resolution was that he preferred twelve to six months' notice, which was not mentioned in the second resolution. He considered Mr. Gurdon's lease an excellent one. A four years' lease with four years' notice would undoubtedly meet the many difficulties which had now to be contended with. He also preferred the first resolution because although he was not wholly in favour of compensation for the dilapidations and deteriorations being paid to the landlord, still he thought that the Lincolnshire custom of making the tenant liable should be maintained, and there was nothing of that kind in the second resolution. His lordship

then quoted the Lincolnshire custom as to the leading points: He understood that the Land Bill which Mr. Gladstone would introduce would make leases compulsory. He did not know that they were particularly wished for, but had often heard it said that confidence in a landlord was better than a lease. He hoped these two points would be brought out, first, that the custom of the country was not uniform; secondly, that a proper distinction for permanent improvements ought to be made clear. He thought these two points were practicable and ought to be discussed.

Mr. R. L. EVERETT said there was a great deal of grumbling by the tenant farmers at the sense of the insecurity which they felt for their capital. Draining and buildings and the things mentioned in the first resolution appeared to him to belong to a large extent to the landlord, if the landlord was only willing to lay out the money. It would not be right for the tenant to make those improvements and afterwards charge the landlord with them. If the landlord did not think proper to grant a lease, the tenant would be unwise to make improvements of that permanent character, and if he made them subject to the weak interest he had in them, he had no right to ask that the law should protect him in such a proceeding. If the landlord did that which was best, granted a lease, the tenant would use the best of his judgment and would only lay out as much money as he could get back in his term. But it was not right by law to attempt to put the landlord in the tenant's power. As to smaller improvements, such as arose from the skilful tillage, fattening cattle, putting on manure, &c., it was admitted that the tenant had a right for compensation in those matters, and valuers did take them into account in some small degree. They did not take them fully into account, but it appeared to him that it would not be wise to ask for any law relating to this matter, because it was so difficult to assure to the incoming tenant that he would get that for which he would be charged. They could have no security that they were honestly dealt with in paying for manure or cake or corn, but any incoming tenant would be glad to pay if he could be sure that he would be honestly dealt with, inasmuch as the money would be paid for the improvement of the land. Still he deprecated allowing things to remain as they are; but thought the best thing would be to lengthen the legal notice to quit from six to eighteen months. Mr. Everett proposed the following resolution: "That there is urgent need for such alteration in the law as shall (in the absence of special contract) make 18 months instead of six the legal notice to quit the occupation of agricultural land."

Viscount MAHON seconded the resolution.

Mr. F. S. CORRANCE, M.P., said the subject had often been discussed before, but there was a certain speciality which had been introduced in the resolutions. There were certain abstract propositions, which were more or less open to useful and practical comment. They implied more than appeared on the face of them. Did they mean that members of Parliament were thereby requested to give legislative effect to those resolutions? This was a serious question, because there were several points in the resolutions which were novel. He thought the tenant ought not to be allowed to make improvements at his own expense without the knowledge of the landlord in the first instance, and subsequently without his consent. It was perfectly practicable that the Legislature should attempt to carry this out. It was done already in the Irish Bill, in reference to which some objections just raised were applied. Those objections had been swept away by the assumption that the tenant's good will was worth a certain amount, and that a valuer would go over the farm and see how much improvement had been done in the last four years, and whether anything was due to the tenant or not. The sweeping enactment they passed then made this Tenant-Right worth so many years' rent. Now they had to consider whether they would consent to a bill with such a clause as that ("No, no"). Then there were those points which referred to the protection of leases, which he believed were almost universal ("No, no"). They were, he thought, in his own neighbourhood. There might be exceptional cases, in which the landlord reserved the right of letting from year to year. This matter was pointed out in the discussion on the Irish Land Bill, and, with regard to England, if the relations between the landlord and tenant remained in the present unsatisfactory state, there might be an enactment similar to the Irish Land Bill. The landlord and tenant were the proper persons to do all this themselves. Why should they not take the hint? Why were

they so blind to what was coming upon them so fast. Attention had frequently been called to it, but they said, "We are satisfied to remain as we are." But that was neither here nor there; circumstances of injustice would arise, and amiable and philanthropical gentlemen would be ready to come forward to relieve the aggrieved class. He thought the result would be a partisan measure, and made to have some distinct political effect. The result would be that the Legislature would do more than either landlord or tenant would require, and he would therefore advise them not to sanction, by any resolution such as those read, any legislative interference between the landlord and tenant class. They might justly express their regret that under the terms of the contract the interests of the tenant were not cared for sufficiently, and they might express a hope that the landlords would take this more seriously into account, but beyond that they had a definite objection to any Land Bill of the Irish class. He had voted for the third clause of the Irish Bill, which was to give compensation to the tenant for unexhausted improvements. On what ground did he do that? He found a class there, a class which was totally different to anything else, he found neglect on the part of the landlord, and utter helpless dependence on the part of the tenants. But who would dare to say with regard to English tenants that such was the case? There were limitations introduced in that Bill on account of the inferior class, who could be hardly called farmers at all, but if we attempted to pass such a Bill to-morrow for England, it would fall to the ground. He warned them to beware of legislative enactments of this class. They were edged tools and they cut deep. The Attorney-General, at Exeter, said, "Now it is certain that the laws relating to land-transfer, the law of mortmain, and the law of entail, will all come in due time to be considered; and the practical effect of the present state of these laws on the condition of the peasantry must have a most important bearing on the decision of these great questions." He could only deeply regret that a man like Sir John Coleridge should have thus appealed to feelings which were unworthy of a demagogue. It was a proof of what bad associations could produce. He was prepared to endorse the resolutions sent by the Central Chamber with the distinct understanding that they were not to be the basis of legislative enactments.

Mr. H. BIDDELL said there appeared to him to be one or two different points to be considered in relation to the question. First, if they were to have a legislative enactment, it must be one act for the whole kingdom. But was there any one who would agree that the one act would suit all parts of England? ["Certainly not."] They could not have as many acts as there were counties in England; and what was the use of their agreeing that such and such things should be paid for if the valuers would not agree to give effect to their resolutions? The valuers in various parts of England would not give effect to rules which were not enforced by legal enactment. The Ulster Tenant-Right was the nearest approach to a law, and had nearly assumed the force of law, but that was the growth of centuries. They could not hope to start something new, and to have equal respect paid to it, for thirty or forty different counties in England. When he was in London, in the discussion at the Central Chamber, he heard it stated that the tenant of an entailed estate, if the life-owner died in June, and the successor came into possession immediately, he could cause every tenant to leave at Michaelmas following. Not only that, but, if he died in September, he could force every tenant to quit in six weeks. He would very much like to hear the opinion of some members of the Chamber on that point.

Mr. W. GURDON said he did not see how the tenant could be made to leave in six weeks.

Mr. BIDDELL: By law.

Mr. GURDON: There is no dispute about the law of tenancy from year to year.

Mr. BIDDELL asked Mr. Gurdon to contradict the statement.

Mr. GURDON said, in the course of discussion on this point, that the speaker might allude to the custom of some district.

Mr. BIDDELL said that Mr. Corrance had given his consent to a clause to be inserted in the Irish Land Bill for compensation to be given to tenants for unexhausted improvements, whatever they might be, for an indefinite number of years. But Mr. Corrance and Mr. Read both advocated a condition that the improvements were to have been made with the con-

sent of the landlord. When the Bill was passed, however, that condition was taken out. He hoped they would have none of the exceptional legislation which had been applied to the Irish Church. (Mr. Everett: "Oh, question.") Irish land legislation was retrospective, and transferred the property of the landlord in one year to the tenant in the next. Was that not the case?

Mr. CORRANCE: No it was not the case.

Mr. BIDEELL: In the one case, if the tenant had notice to quit the property would have passed to the landlord; but after they passed the Bill, the same property became the property of the tenant.

Mr. CORRANCE: No doubt.

Mr. BIDEELL repeated that he hoped there would be no legislation of that sort for England.

Mr. NEWSON GARRETT said that many of the leases now in use were of such a character that he was not at all surprised to hear some gentlemen say that they did not want leases. He should be very sorry to advocate the granting of leases such as he had seen, for they were a disgrace to both parties. Legislative enactments could only be staved off by the landlords coming forward and producing sound, good leases, and meeting the tenants in a liberal spirit in the matter of unexhausted improvements. He was not wrapped up in legislative enactments. To a certain extent it was derogatory that it should be necessary for the State to step in between a man and his landlord. They might depend upon it that unless something should be done to meet the view of the tenants, the Government would do something, and that almost immediately. He believed the tenants would, as a body, prefer to be without legislative enactments. The damage done by game should also be provided for in any lease or agreement. It was not to be expected, as the matter at present stood, that an occupier could be expected to put his money into the soil to remain at the mercy of one man.

The PRESIDENT said he had observed for some time past that legislative interference meant litigation. There were a certain class of men called draughtsmen, who wrote Acts of Parliament, who were not acquainted with the English language, and wrote it in such an indefinite and bad manner, that the judges had complained of it. If they did not take care to have any law which was passed clearly defined and clearly written so that every man could understand it, they would perhaps find that the most profitable harvests would be those of the lawyer and not of the farmer. To that he would add one prophecy with reference to what had been said by Mr. Corrance as to the speech of the Attorney-General, which he (the President) had not read, who seemed to have taken up with professional politicians what was called the land question. If he might make a prophecy, it would be that the land question would end in the land taxation question. Many Chambers and many men now talked of the land question as a thing on which they were not interested, and they could be philanthropical at other people's expense, but they would find an earnest and serious attempt on the part of all classes of agriculturists to discuss, to settle, and decide on principles of justice the taxation which now rested upon the land.

Mr. EVERETT's resolution was then carried by 13 votes to 1. On the proposition of Mr. Everett, it was agreed to withdraw the second and third resolutions. The question of local taxation which was upon the agenda paper was referred to another meeting.

Mr. H. BIDEELL said there was one matter which he hoped soon to see brought under the notice of the Chamber, and that was the decision of the magistrates for the Samford Hundred, in reference to a charge brought by Mr. Cooper, of Bentley, against some gleaners. It had there been held that if a farmer allowed one party to glean in his field, he could not refuse others, but must throw the field open. This was a matter which greatly interested farmers, and should be properly discussed.

THE CORNWALL CHAMBER OF AGRICULTURE.

EDUCATION OF FARMERS.

At the meeting at Truro Mr. Tucker gave a lecture on the education of farmers, in which he said:

There never was a time when the necessity for education was so generally acknowledged as it was at the present moment, and we were now engaged in endeavouring to carry out a national system of education. Education, to be worthy the name, must be based and rooted in religion. He had no sympathy with the attempts made in some quarters to create a divorce between the two. He had, however, to deal with technical education. By this he understood instruction in the principles of the arts of life. Technical instruction stopped when the three Rs broke off. As the Bishop had said, technical knowledge should be directed to that which lies at the bottom of our daily labour. Our artisans at one time distanced those of other countries, but they were now being distanced themselves by the artisans on the Continent. In many cases the manufacturers and mechanics at home did simply what they were told, and exercised their intelligence as little as possible. He wished to draw attention specially to the importance of educating the young farmers, by whom farming would have to be carried on in the generations to come. There were some countries where farmers had small holdings, something more on the scale of gardens than farms, where great fertility was attained to; but for the best cattle and sheep, and for the best and most improved husbandry, Europe, Asia and America must yield to England, but they must take care that the teachers did not become the taught. They must keep the practice of agriculture abreast of the spirit of the age. They must seek the highest perfection, and the result would be that millions a year would be spent in this country that now go abroad for food for the people. This was only to be attained by giving the young farmers a better education. The bulk of farming at present was conducted simply by the guidance of experience. For those who could have no other guide in days gone by the lessons had to be learnt, but it was somewhat different now. We should not be satisfied by knowing that a

thing is so, we should inquire how it is, and science would reveal the cause. As Carlyle said, experience was the best schoolmaster, but it exacted great school wages. In early days it was of little consequence whether the farmer knew the meaning of such a word as dynamometer, but now, with reaping and mowing machines, thrashing machines, and all the new and varied machinery applied to farming, it was necessary, if he would compete with his neighbour, that he should know upon what principles these pieces of mechanism had been constructed. The argument was similar as to the cattle. Formerly they were remarkable for bone, but now there was an immense amount of capital invested in the breeding and keeping of stock, and it was, therefore, essential that the young farmer should have some knowledge of the breed of animals and the localities best suited for them. These were matters of technical education, with which every farmer should be acquainted. He next urged the importance of a knowledge of chemical science. He did not for a moment undervalue practical training and the value of experience, nor did he mean to say that technical education of itself was sufficient to make a man a farmer. Before a man was fitted to manage a farm he must have a personal acquaintance with the details of farm work; but as most other businesses required and the nation required an examination of a man's fitness to be its servant, so should a man taking a farm have a fitness for the work. It was quite right that the landlord should see that the farmer possessed sufficient means for the proper cultivation of the soil; but these means being secured, the possession of practical skill should be regarded as absolutely essential. Having these, the farmer should be hampered as little as possible in the management of his farm. The public good, however, seemed to be little regarded in this matter, and the nation cared nothing apparently about the waste in its resources, by not placing the cultivation of the soil into the hands of those best qualified to carry it on. By the practical application of chemical science to agriculture

he understood the bringing to bear upon cultivation or treatment of the soil a knowledge of the natural laws which regulate the condition of the elements of the soil and their relations one to another, the object being to increase the productiveness of the land, making it more remunerative. This, of course, included a knowledge and a fitting application of natural and artificial manures for the amelioration of the soil, and it also comprised a knowledge of those beneficial and unchanging laws by which all material things were governed, commonly called the laws of Nature. There was no such thing as chance or luck. They might, however, mitigate the effects of the untoward season, and take more advantage of the propitious weather than they did at present. A farmer should know the various characteristics of the soil which he cultivated, and the means whereby its productiveness might be best promoted and sustained. Those who had had an estate for a number of years had pretty well solved the problem for themselves by costly experience, but if a young farmer were so educated that he could see at once the nature of the soil of each field, and what treatment each required for the growth of certain plants, an immense advantage would be gained. It was quite possible, with a knowledge of chemistry, to make the same soil grow the same crop for a long series of years, but he was not inclined to turn his back upon rotation. Their forefathers laid down the principle of allowing the land to lay fallow between the crops. They believed that the land required rest. There could be no doubt that in a certain sense they were right. The soil required time to absorb those gases from the air necessary to enable it to supply that which had been extracted from it by the crop. Some soils had a greater inherent attraction for these gases than others, and hence they were everlastingly richer and more productive soils. Farming was much too little studied. Some farmers would use lime, and others would not use a bushel. What they wanted to know was the kind of manure to use, and then the quantity. They could not, for instance, get good straw without silica, and so they might give manure where it was of no service. Manures had the double action of stimulating and feeding, and commonly both. Land may become so stimulated as to be injured. Over stimulation was followed by reaction, the soil having made an effort beyond its strength. This might arise from the nature of the manures employed, or from the quantity. In either case they had a double loss. He spoke of the waste in the farmyard, owing to a want of knowledge of chemistry. Another difference between the present day and the past was that less of the produce of the farm was returned to it than formerly. The food was sent to the towns and the towns sent their sewage into the rivers and the sea. The nation could not afford this. The sewage of towns, rightly dealt with, might become a mine of wealth. He also urged the importance of a knowledge of geology, and mechanics amongst farmers, and he said there need be no difficulty in making these parts of the education in the common schools. The education must be brought home to the doors of the farmers, and it must be made cheap. He had suggested several years ago an association of tenant-farmers, for the purpose of promoting this technical education, and he thought that would be much more practical than the ordinary agricultural societies. He had also offered prizes for the best essay on agricultural chemistry. This was one of those objects that would benefit all concerned, and the money expended by landowners upon it would do as much good as subsoiling, or farm buildings, or making better communications. The better the farmer the better the farm, and the better must it be for the whole community. Science had done much for other pursuits, but agriculture remained in practice pretty much where it was. Why should this be so? God had devised laws which, if they knew them, would do as much good for agriculture as other laws had done for other pursuits. They should try to find out those laws, and if they asked God to give them His aid He would not fail them, as He had not failed their brethren in other pursuits.

Mr. J. T. H. PETER said a discussion on education was very desirable in Cornwall, for there appeared to him to exist too much indifference on the subject among all classes. This arose, he believed, from the peculiar circumstances of the county, circumstances which gave it the character of being a very clever one. Miners occupied a great part of the county, and they naturally exercised their minds more frequently and more earnestly than agriculturists, and were generally a sharper race. Agriculturists living with miners

naturally became sharper than agriculturists living by themselves, and so they had the reputation of a clever county, or a cunning county. Sometimes cunning was but an imperfect instrument—come-by-chance knowledge, often useless, and often injurious. Cornishmen had too often been made to rely solely upon their natural abilities and to treat somewhat with contempt school learning as only impeding the action of their cunning. Devon, on the contrary, had confided much more to regular and scientific education, and the consequence had been that she had sent out in the world a number of men distinguished at the universities, at the bar, and in Parliament, and he did not think that at present any public Cornishman was to be compared with them. They had been told that agriculture was a science, and that it depended greatly upon other sciences. It contained a great number of truths, each one of which used by fair education and common sense might direct men in numerous difficulties in agricultural pursuits. As Mr. Tucker has truly said, experience took a great time, time in which a man might acquire an income. Before mastering the principles of any science some previous education was required, some training of the memory, of the reasoning, imagination, and invention, and a considerable interest in the science was also required, and for that reason he did not think agricultural science could be taught to very young boys. He had read some very valuable books on agriculture, which he thought if read through by boys of 15 years of age would do a great deal of good. There was an excellent half-crown book called "The Gardeners' and the Farmers' Reason Why," and he did not see why some book like that should not be taught in the common schools in the country, nor why examinations on agricultural subjects should not make part of middle-class examinations. One of the largest fortunes ever made by farming was by a scientific man. Education should teach a farmer something more than mere agriculture. He should be taught some kindred subjects. Political economy would be of the utmost importance to the farmer. That science would teach him the cause of the prosperity and the poverty of a nation, the causes of high and low prices, the commercial signs of the times, and when he might expect high or low prices, when to buy and when to sell. Political economy would teach the farmer never to take an estate and make a great outlay upon it without a lease or some written agreement, and it ought also to make him ashamed to ask for compensation if he made such a blunder. A good artisan calculated his materials, and what he could complete a contract for, and kept himself safe. There was another matter on which political economy would teach them something, and that was with reference to the Game-laws. It would put an end entirely to preserves; it would teach men the great cost of the preserves to the landlords and to the tenants and to the country. He did not think that educated men, knowing that cost, would find very much satisfaction in the kitchen-maid amusements, or the unskilled amusement of killing day after day beautiful fowls. Education gauged at once the business and the amusement of a country. The days of dog-fighting, cock-fighting, badger-baiting, and bull-fighting had vanished before education, and so would shortly pass away the days of pheasant-baiting and farmer-baiting.

Mr. ALLANSON said that Professors Wilson and Liebig had said that to analyse soils with the view of ascertaining what constituents were wanted for crops was a perfect absurdity.

Mr. MARTYN suggested, in the form of inquiry, that farmers might get all necessary information on such subjects by applying to professed analytical chemists, and this much cheaper than by the expenditure of time and money in learning chemistry.

Colonel TREMAYNE had not the slightest doubt that a knowledge of chemistry would be of great use, but what they wanted to find out was how to bring that knowledge to the young farmer without exclusion of less special instruction.

Mr. DAUBUZ said perfection in chemical science could be attained only by life-long study; but he did not see why, as he had understood Mr. Tucker to suggest, the rudiments might not be included in the general education of young farmers.

The Rev. G. L. CHURCH spoke of the important distinction between education and instruction, and he urged that the object, especially of early education, should be to teach the boy to think. Special instruction might then be added, and he

thought that some of the rudiments of chemistry ought to be taught to young farmers.

The Rev. R. VAUTIER believed it was 'really necessary that farmers should have some knowledge of chemistry, but he desired to know how it should be taught—whether in schools, or agricultural colleges, or at centres formed in the county, where classes might be established and lectures given. This last plan might, perhaps, be the most practical,

Colonel TREMAYNE said perhaps the only way in which they could attain the teaching of agricultural chemistry to young farmers would be by persuading the governing bodies of schools to include it in their course of instruction. After that this and similar Societies might engage competent persons to deliver lectures, and young men might have work given them to take home.

THE CENTRAL CHAMBER OF AGRICULTURE.

A Council Meeting of the Central Chamber of Agriculture was held on November 5, at the Salisbury Hotel. The chair was taken at 11 o'clock, by Mr. E. Heneage.

After the usual preliminary business had been disposed of, Mr. C. S. READ, M.P., moved the following resolution: "That the thanks of this Council be taken to the Royal Agricultural Society for the course it has taken in the action of *Kidd v. the Royal Agricultural Society*." The hon. member said he should like that acknowledgment to be accompanied by a donation of say £10, toward the expenses incurred by the Society. The money spent in defending the action was well spent, and the farmers of England ought to feel deeply obliged to the Society for the course which it had taken. As one of the representatives of the farming interest he had great pleasure in moving that resolution.

The CHAIRMAN observed that the Council had no funds out of which to make such a donation as had just been suggested, and after the matter had been fully considered in committee it was thought best that the various agricultural societies of England should be left to testify their appreciation of the conduct of the Royal Agricultural Society.

Mr. T. HORLEY, in seconding the resolution, said, that a great deal of good had arisen from the action of the Royal Agricultural Society was apparent from the meetings which had recently taken place among the largest manufacturers of linseed; adding that it would now be the fault of the farmers themselves if they were not sufficiently careful in the selection of the article.

The resolution was carried.

Sir M. LOPES M.P., then presented and read the annual report of the Local Taxation Committee.

The Local Taxation Committee, in presenting their Annual Report, are able to review with considerable satisfaction the success of their efforts in the past session. The growth of the Committee in numbers and in influence has been steady and continuous. The question of Local Taxation Reform has been placed by the Committee prominently before Parliament and the country. Urban and Rural Ratepayers are on all sides admitting their common interest in the matter, and it is at length generally acknowledged that the Committee have rightly ignored all class or party feeling in dealing with this subject. The policy recommended by the Committee, and embodied in the motion recently submitted by their chairman to the House of Commons, has proved successful in obtaining for Local Taxation Reform the foremost place in the legislative programme of next session, while the energy with which the ratepayers' grievance has been urged has at last drawn from the Premier a definite pledge that a complete and comprehensive measure on this subject will be submitted by the Government. Their proposals the Committee now anxiously await, and they are glad to remember that the House of Commons, whose duty it will be to consider the measure, stands already pledged to the expediency of redress, and has so emphatically endorsed the principle contended for, that the cost of discharging national duties should no longer be charged solely upon a single description of property. Reviewing the work of the Committee during the past session, the first subject with which it became their duty to deal was the action of the Treasury in arbitrarily disallowing portions of the costs of criminal prosecutions. Charges from which county and borough ratepayers were expressly relieved by the action of Parliament twenty-five years ago were thus, by the conduct of the Treasury officials, in part re-imposed. Circulars calling attention to this matter, together with returns showing the amounts thus disallowed, were forwarded by the Committee to clerks of the peace in counties and town clerks in boroughs, and many Courts of Quarter Sessions petitioned Parliament for redress. Legal action had been taken on this question by the magistrates of Lancashire, and in this they were joined by those of Kent and of the West Riding of Yorkshire. The judges of the Court of Queen's Bench, however, decided that they were unable to compel the Treasury officials (who had

pleaded the technical defence of prerogative, that as the servants of the crown they were not amenable to the court) to refund the sums in question. The Lord Chief Justice, with the unanimous concurrence of the bench, still declared the action of the Treasury to be unjustifiable, and while stigmatising it as "monstrous" and "anomalous," intimated that Parliament alone could afford a remedy. To Parliament therefore the Committee appealed. On the 15th of March last the chairman moved a resolution declaring the necessity of putting an end to the present anomalous practice, and of providing the funds required solely from moneys appropriated by Parliament. This motion received cordial approval from all sides of the House, and the Government were left without any defence except on the part of their own official representatives. The attitude of defiance assumed by the Chancellor of the Exchequer on this question at the close of the previous session was therefore abandoned, and the Home Secretary first offered to remedy the matter in connection with the Public Prosecutors Bill. This was shown to be neither an effectual nor a ready means of settlement, and Mr. Winterbotham, the under secretary, thereupon intimated that other means of redress were also under consideration. Finally, on Mr. Baxter having formally undertaken on the part of the Treasury to deal effectually and at once with the grievance, the motion was not pressed to a division. The Committee very much regret to state that up to this time the Government have evaded fulfilment of this promise. At a late period of the session, when it was manifestly impossible to discuss the matter, a number of amendments, professing to redress the grievance complained of, were introduced by the Home Secretary in the Public Prosecutors Bill. These amendments to a great extent altered the character of this measure and afforded no complete or general remedy, but by involving this simple question with the much larger one of instituting an entirely new series of officials and a new system of prosecution, they secured the impracticability of dealing with either question in the short remainder of the session. When challenged by the Chairman of the Committee for this course of action, Mr. Bruce could only offer a renewed pledge of prompt action next year, and promise elasticity and consideration in the working meanwhile of the present system. The Committee will therefore feel it their duty to see that the earliest attention of the Government is claimed to their repeated pledges on this subject, unless a satisfactory solution of the question involved is offered by the general measure of Local Taxation Reform to be introduced. Soon after the session opened the Committee were gratified by the announcement of the Government that they had abandoned their proposals of the year before, for throwing on ratepayers the cost of providing storehouses and barracks for the militia, and that they were at length prepared to recognise the imperial character of these charges—removing the existing and all future liabilities of counties in these respects to the exchequer, and defraying the proposed new expenditure from national sources. The Committee have already acknowledged the satisfactory manner in which Mr. Cardwell proposed to carry out this transfer; and they congratulate ratepayers on the effect of their arguments in convincing public opinion on this question, and on their consequent relief from the threatened imposition of no small portion of the three and a-half millions now required for the national defence. The Committee have to report also the success of their renewed opposition to the proposition of placing on the rates the cost of election expenses. Notwithstanding the support lent by the Government to this proposal of Mr. Fawcett, it was negatived by a majority of 92 in a House of 435 members. The debates which arose on this question were remarkable for the general expression of the reluctance of ratepayers to admit any new charge till their grievances were redressed—and for the emphatic endorsement of the views of the Committee drawn from the leader of the opposition. Mr. Disraeli, claiming undoubted precedence for rural reform over new rating proposals, used these words: "I heard with alarm from the Government that they are favourable to defraying the charges from the rates; I think the time has come when it ought to be made clearly apparent to any Government that may exist in this country that no increase of the rates can be tolerated so long as the

area of taxation from which those rates are drawn is limited as it is at present. If we cannot solve that most perplexing problem of increasing the area we must leave the rates alone; but whatever the purpose, or whatever the amount, I am convinced the wisest policy of the ratepayers of the country is to resist any increase of the rates, however slight and however plausible the pretext, until Government make up their minds to encounter a difficulty which may be most perplexing to any member who comes forward with any proposal to increase them." As on former occasions, a very large part of the Committee's duties consisted in watching the introduction of new measures, in opposing those which proposed to increase the existing burden of the rates, and in amending others where injurious to ratepayers. The list of the measures thus dealt with, and the result of the action taken by the Committee and their friends, is as follows:

1. The Fires Bill (withdrawn).
2. The Justices' Clerks' Salaries Bill (dropped).
3. The Clerks of the Peace and Justices' Clerks' Salaries, &c., Bill (withdrawn).
4. The Municipal Corporations (Borough Funds) Bill (sent to Select Committee, remodelled and passed).
5. The Prison Ministers Bill (withdrawn).
6. The Steam Boilers' Explosion Bill (dropped).
7. The Intoxicating Liquors (Licensing) Bill (amended and passed).
8. The Registration of Borough Voters Bill (defeated).
9. The Juries Bill (withdrawn).
10. The Registration of Births and Deaths Bill (withdrawn).
11. The Public Health in Rural Places Bill (withdrawn).
12. The Public Health and Local Government Bill (withdrawn).
13. The Public Health Bill (remodelled and passed).

The opposition of the Committee was directed in the case of the Fires Bill to the proposal contained in it to throw on the rates the cost of inquiries into the origin of fires and the expense in certain cases of special officers charged with the duty of investigation. Amendments with regard to these particulars were proposed by Mr. Clare Read and Mr. Pell (both members of the Committee), and the measure was withdrawn by its promoter. The Justices' Clerks and Clerks of the Peace, &c., Bills were opposed in so far as they tended to increase the liability of ratepayers in respect of the salaries of these officials. The first of these measures was met by a resolution to this effect, proposed by Sir M. H. Beach (a member of the Committee), and both measures were finally abandoned. The Municipal Corporations (Borough Funds) Bill resembled the measure successfully opposed in the preceding session. It was objected to since it proposed to burden ratepayers, without option on their part, with the cost of promoting or opposing such schemes or objects as their governing bodies might think fit. On the motion of Lord Mahon (a member of the Committee) this measure was remitted to a Select Committee and there shorn of some objectionable features—and it was only passed into law after having been further amended by the exertions of Mr. Pell, Sir M. Beach, and others, so as to reserve to the ratepayers themselves full discretion in each particular case as to the propriety of burdening themselves for the objects contemplated by the Bill. The Prison Ministers Bill was also a reproduction of one defeated last year. It proposed to permit the Home Secretary, in opposition to the opinion of the local authorities, to appoint prison ministers in certain cases according to the various persuasions professed by the prisoners in any gaol; and yet it proposed that the salaries of these ministers should be charged on the local rates. Although this measure succeeded in passing the House of Lords, after a reduction in the amount of the salaries, sufficient opposition was accorded to it in the Lower House to secure its withdrawal. The Steam Boilers' Explosion Bill proposed to place the expense of inquiries into occurrences of this nature by coroners on the rates—it was necessary, therefore, to object to any such legislation where the object was to benefit the entire community. This measure was ultimately dropped by its promoter. The Licensing House of Lords contained a proposal to create a separate staff of constables as "public-house inspectors" at the expense of the local rates. The Marquis of Salisbury (a member of the Committee) pointed out that an extension of the police force so provided for would directly violate the decision to which the House of Commons, on the motion of the Chairman of the Committee, had just arrived, and the proposition was on a division struck out of the measure by the Peers. The Registration of Borough Voters Bill was another measure withdrawn in the previous session. The opposition which it excited, and which on the part of the Committee was directed against the proposal to burden ratepayers with the cost of new officials as electoral registrars—was fortunately able to secure the defeat and rejection of the measure. The Juries Bill proposed extensive reforms of our present jury system. The attention of the Committee was called, however, to its proposed continuance of charging on the rates expenses connected with the summoning of juries—a matter which

forms strictly a part of the administration of justice. The Bill, after examination by a select committee, was withdrawn by the Government. The Registration of Births and Deaths Bill contained provisions adding to the cost of Registration, which is now unfairly borne by ratepayers alone. This necessitated an opposition by the Committee, which resulted in the withdrawal of the measure by the Government, by whom it was promoted. The Public Health in Rural Places Bill dealt with matters of administrative detail, some of which were eventually incorporated in the measure which passed into law, and it was therefore itself withdrawn. The Public Health and Local Government Bill was that of Sir Charles Adderley, to which the Committee before directed attention. They deemed it much more valuable and complete, as a consolidating measure, than the Bill originally introduced by the Government, while they could not withhold their opinion of its centralising tendency and the increase of local burdens which it would entail. On these grounds they are glad that its withdrawal, and the reduction of the scope of the Government measure, has postponed such large questions as a complete consolidation of sanitary law and a reform of our system of local government, until the incidence of Local Taxation has been satisfactorily revised. The chaos which our numerous ineffective and conflicting health laws produced, and the feeling of semi-panic which prevailed last session throughout the country on this question, provoked a powerful demand both in and out of Parliament for some more general and consistent sanitary legislation than had hitherto existed. The strength of this demand, the concurrence of all political parties in its propriety, and the undeniable importance of the subject, overpowered the strongly expressed opinion of the Committee that a reform of Local Taxation ought in justice to precede any increase of such taxation. The efforts of the Committee therefore could only be directed to the limitation of the measure to the most urgently required reforms, and the supply of the primary want of a uniform system of sanitary authorities. In this, and in mitigating the pressure on ratepayers inseparable from a measure of this nature, they have been completely successful. The Public Health Bill as originally introduced, besides constituting the new authorities, contained provisions enforcing a large number of new duties relating to such matters as the purity of rivers and wells, the supply of water and gas, the provision of dispensaries, hospital accommodation and medicines to non-paupers, and the suppression of various nuisances, while it embodied also many stringent clauses which tended to reduce or supercede the control of local authorities over the necessary expenditure. At the same time Mr. Stansfield, although repeatedly questioned, declined to state the intentions of the Government as to granting aid to localities from Imperial sources towards the largely increased expense to which the Bill proposed to render them liable. It became therefore the duty of the Chairman of the Committee to give notice of a resolution declaring that it was inadvisable to proceed with the measure until satisfactory information on this point were given. The Government, unwilling to risk the defeat of their Bill, then undertook to reduce and remodel it—abandoning most of the objectionable clauses and those imposing new duties, and limiting their proposals to the constitution of authorities throughout the country charged with the administration of existing sanitary powers. On going into Committee on the Bill thus amended the Chairman proposed the following motion: "That, while fully admitting the urgent necessity for sanitary legislation, this House is of opinion that the power proposed by this Bill to be given to the central authority over local expenditure should be accompanied by some provision for contributions from Imperial resources in aid of burdens which, being imposed for the benefit of the community at large, ought not to be charged on one description of property only." Notice was given also of amendments to carry these proposals into effect by charging on the Treasury half the salaries of the new officials required as medical officers and nuisance inspectors, and providing for loans for sanitary works being granted, at a rate not exceeding 3½ per cent., by the Public Works' Loans Commissioners. These propositions were accepted by Mr. Stansfield. This concession on the part of the Government appears to the Committee especially valuable as establishing the principle of the liability of the whole nation, instead of a section only of its property, for outlay incurred on behalf of the entire community. The proper course to be pursued in dealing with this Bill occasioned much anxious consideration to the Committee. They are however confident that they have justified the responsibility incurred in opposing new sanitary powers by obtaining financial facilities which will greatly aid the efficient working of the new authorities, while the restriction of the present measure to the provision of a uniform local administration will pave the way to the enactment of a complete and comprehensive code of health laws as soon as the preliminary readjustment of the basis of taxation is satisfactorily settled. The forms of the House of Commons prevent Members of Parliament introducing (as private members) Bills dealing with public money. The representatives of the Committee in the House are unable

therefore to introduce in any measures relieving the rates by contributions from the Imperial Revenue. They have, however, been able to take an initial step last session to facilitate the general revision promised by the Government, and to throw considerable light on the fiscal position of the local taxpayer. In introducing the Local Taxation Accounts Bill the aim of the Committee was to provide for the annual production (previous to the period at which the Imperial Budget is usually discussed) of a complete and accurate statement of local finance for the preceding year. The value of such a statement is generally admitted, and the want of it is demonstrated by the extreme difficulty of ascertaining from existing returns with any accuracy the present local taxes and local expenditure. It would enable ratepayers to contrast their rapidly increasing burdens which the much vaunted remissions of imperial taxation, and place prominently before legislators how the cost of much new legislation was being provided—a matter which is too often forgotten when the expense has once been charged on the unchronicled chaos of rate taxes. Very considerable difficulty was met with by the Committee in framing this measure owing to the present anomalous and defective state of the law with reference to the varying periods at which local authorities close their accounts, the mode in which they are audited, the form in which they are kept, and the returns made annually by the authorities of their transactions. On the 1st July Mr. Pell, who had devoted much time and trouble to the preparation of the Bill, was however able to introduce the measure, which was also endorsed by the Chairman, Mr. Clare Read, Mr. Rowland Winn, and Lord Mahon. The Bill, which was drafted at the expense of the Local Taxation Committee, was favourably entertained by the Government authorities. It attempted to provide for uniformity of system and proper returns by local authorities, and required the Local Government Board to furnish Parliament annually with a comprehensive statement of Local Receipts and Expenditure—in a form which clearly discriminated the various sources of local revenue, and classified the diverse objects for which expenditure was incurred. It was found, however, impracticable, in the then position of public business, to pass this Bill into law. The Committee hope to be supported in their intention to re-introduce it early next session, unless the Government in their promised scheme should deal also with the question at the same time. The complete success of the resolution moved by the chairman of the Committee on the 16th of April, must be regarded as the chief event of the session of 1872. His motion was in these terms: "That it is expedient to remedy the injustice of imposing taxation for national objects on one description of property only, and therefore that no legislation with reference to local taxation will be satisfactory which does not provide, either in whole or in part, for the relief of occupiers and owners in counties and boroughs from charges imposed on ratepayers for the administration of justice, police, and lunatics, the expenditure for such purposes being almost entirely independent of local control." It will be observed that there was here involved, first, a clear assertion of the principle so long contended for by the Committee—of the common obligation of all persons and property to contribute towards national duties; and, second, a distinct intimation of the utter inadequacy of any remedial proposal which did not at least embrace the relief of ratepayers from the present weight of such essentially national expenses as are involved in the administration of justice, the maintenance of a police force, and the treatment of lunacy. The chairman's resolution was seconded by Col. Amcotts (a member of the Committee), who, speaking from the opposite of the House, demonstrated that entire absence of party feeling which has always characterised the action of the Committee. The motion was opposed by Sir Thomas Acland, who met it by a very peculiar amendment, the opening sentences of which seemed to echo—though ambiguously—the primary proposition of the resolution, but which ended by offering as a tangible remedy only a distribution of rates between owners and occupiers; while he recommended this course mainly on the score of the increased facility which might thus be given to new legislation for sanitary and other local objects. To this amendment the Government lent their powerful support, Mr. Stansfeld and Mr. Goschen strenuously resisting the Chairman's resolution. In the course of the debate which ensued the fallacies advanced by those who offered only a pretended remedy which would leave immovable property saddled as before, with exceptional taxes for the common good, were fully exposed; while the very moderate, just, and practicable character of the Chairman's proposal was made evident. On a division therefore the real friends of the ratepayer triumphed over Sir Thomas Acland and the Government by a majority of 100. For this crushing defeat of the opponents of Local Taxation Reform, the Committee have to thank the intrinsic justice of their own cause, the ready aid which they received from chambers of agriculture, from the Metropolitan Poor Rate League, and ratepayers generally (in town and country, and, last but not least, the general support afforded them by no less than 291 members of Parliament, representing all classes of con-

ing all shades of political opinion. The immediate consequences of this victory were of very considerable value. The House of Commons has formally declared the practice of imposing taxation for national purposes on a single description of property to be unjust; it has admitted the expediency of redress; it has endorsed the principle that State aid must be proportioned to State control; and it has definitely acknowledged that an indispensible claim is imposed on the Treasury in the discharge of at least three distinctively national duties. Besides this, public attention has been aroused to an extent in no other way possible, and the policy of postponement hitherto successfully practised on this question by the Ministry rendered impossible. The Committee trust, therefore, that their policy will receive general approval, and that they will continue to have the united support of ratepayers in the moderate, prudent, and practical line of action indicated by their past efforts. Government now stands committed to a thorough investigation of the broad field of this large and important question, and to a general revision of local and imperial burdens. If this inquiry be thoroughly and impartially conducted, the Committee are sanguine enough to believe that the reasonable demands hitherto made embody but a small modicum of justice, and that real property (lands and houses) will be found to be justly entitled to a still larger proportion of relief than they have hitherto claimed. Before the close of the session Mr. Gladstone sketched the outlines of the promised comprehensive measure of relief in these terms: "In the measure which they would bring in the Government would look particularly to the following points: First, to the introduction of the representative principle into local institutions where that principle did not already obtain; secondly, to equality and justice as between landlords and occupiers; thirdly, to EQUALITY AS BETWEEN THE VARIOUS CLASSES OF THE COMMUNITY IN RESPECT TO THE AGGREGATE CONTRIBUTION MADE TO THE PUBLIC BURDENS; fourthly, to the general economy of public administration, so that no charges should be imposed which might be avoided or reduced; and lastly, and most of all, the Government would yield to none in their anxiety not only not to weaken, but, if possible, to strengthen those invaluable principles of local self-government and control which were among the main securities of the institutions of the country." The Committee find it difficult to form any very definite opinion as to what proposals may be veiled under these words. The importance of the two last-mentioned considerations will be questioned by no one. The third point contains, however, the whole pith and essence of the programme, and on its satisfactory solution depends the settlement of the whole question. The first and second points, though in themselves important, relate to minor questions of detail which in no degree affect the special grievance complained of, or afford any remedy for exceptional taxation. The proposal to institute representative county financial boards is not improbably pointed at by the first-mentioned consideration, and the project of dividing the payment of rates between owners and occupiers by the second. County financial boards, as an administrative reform, will have the cordial support of the Committee, but the minute portion of county rates not now State-controlled amply shows that, however beneficial in itself, this proposal could in no sense be accepted as forming any part of that "relief" which Parliament has just decided to be due to the ratepayer. The proposition to divide the rates is another matter quite subsidiary to the main issue, which might be fittingly discussed on its own merits, but which can never be regarded as any "remedy" whatever for the common grievance of occupiers and owners alike of lands and houses. A full report of the important debate on the Chairman's motion with an analysis of the division list and extracts from the Opinions of the Press, was reprinted and largely circulated by the Committee, copies being sent into every parish in England, as well as to the mayors of municipal boroughs, chairmen of boards of guardians, &c. In London the Metropolitan Poor Rate League assisted in distributing copies, and several local chambers of agriculture, especially the Lincolnshire Chamber, still further extended the circulation by obtaining copies at cost price and effecting a still larger distribution—the number sent out in all being nearly 18,000 copies. The growth of urban associations with similar aims to their own has been welcomed by the Committee. The Metropolitan Poor Rate League has continued growing in influence, and now embraces 23 of the 39 London parishes in its organisation. The petitions promoted by this body and the influence brought to bear by its members on their Parliamentary representatives have greatly aided the cause of Local Taxation reform in the House of Commons. Various meetings of the League have been held throughout the metropolis, and elicited a ready response from householders as to the burdens under which they suffer, in common with rural ratepayers. The recent action of the Home Secretary in attempting to force by legal action the magistrates of Norwich into erecting a new lunatic asylum, which local feeling and knowledge pronounces altogether unnecessary, besides presenting an apt illustration of the way in which rate-raised funds are at the

present moment controlled by state officials, has roused a very strong feeling in that locality. Norwich has taken the lead in forming a new organisation among provincial municipalities, which will, the Committee trust, greatly aid their efforts in the coming session, since the object of this movement is identical with their own. Leicester and other important towns are also now forming Ratepayers' Defence Associations under the pressure of rapidly-increasing Local Taxation. The Committee has received support from several new quarters during the past session. General concurrence in their views has been expressed in Scotland, and various petitions in favour of their chairman's motion were presented from Scotch counties. Their hands have been strengthened also by the expression of opinion throughout England in Chambers of Agriculture and other meetings. Their secretary has been able to attend and address successful gatherings of ratepayers called under the auspices of the Hungerford, Hampshire, and West Kent Chambers. At the recent meeting of the Social Science Congress at Plymouth, Local Taxation Reform was selected as a subject of special interest for discussion, and the secretary read an exhaustive paper on the question. In the discussion which followed the views therein expressed were very generally endorsed, and the paper has been subsequently reprinted, and circulated by the Committee. In concluding their General Report the Committee have to express their thanks for the support which up to this time they have received, and they gratefully acknowledge the many votes of thanks with which they have been honoured for their exertions in the past. In the future they will continue to direct their efforts to the circulation of information among ratepayers on the question at issue, and will continue to rouse public opinion on the grievances resulting from our present rating system wherever opportunity offers. In Parliament they will maintain a watchful criticism over measures which entail increased rates, and resist the imposition of further unjust burdens. In this course of action they feel that they can hope most effectively to further the interests of ratepayers. In view, however, of the great questions to be submitted to Parliament next year it will be their earnest endeavour to maintain the position they have won, and secure if they can a comprehensive settlement which shall be just and equitable to the ratepayers, and therefore truly politic and advantageous for the common welfare. To enable them, however, to continue their efforts, they must have the most cordial co-operation of all ratepayers, and a firmly united support. Their position can only be maintained in its present strength by a steady pressure for redress on the part of everyone interested in this great social question, and they can only advance the cause they have in hand by feeling that they enjoy the confidence of ratepayers generally, and that their policy is unanimously endorsed by those who have entrusted them with the task of labouring for Local Taxation Reform. If owners and occupiers of real properties (lands and houses) unite, their combined influence must be powerful, and therefore be effective; but if they allow their interests to be divorced, and that will be doubtless the policy of their opponents, their case will be much prejudiced. The Committee feel deeply the responsibility they assume in dealing with so grave and intricate a subject as that before them. They are convinced, however, that they have never claimed aught that has not been both practicable and just, and they have therefore every confidence in their cause if only their efforts are heartily seconded throughout the kingdom. They have to return renewed thanks for the exertions of individuals and Chambers of Agriculture in furnishing them with the essential sinews of war. They need hardly, however, remind their supporters that more extended operations, such as may be rendered necessary by the events of next session, will demand, if they are to be successfully conducted, much larger resources than have ever yet been at their disposal. Should this aid be accorded to them, the Committee will feel able to resume their part in the struggle which is now fairly commenced, and will do their best to free the production of food and the provision of shelter from the exceptional burdens imposed by a system of taxation alike anomalous, impolitic, and unjust.—MASSEY LORDES, Chairman.

Sir J. PAKINGTON, M.P., in moving that the report be received and adopted, remarked that he abstained from making any remarks on the subject, because another important question was fixed for discussion.

The motion having been seconded by Mr. NEILD,

Mr. D. LONG expressed his deep regret at the passing of the Sanitary Reform Bill. Whether or not their representatives in Parliament opposed that measure with sufficient energy he would not say, but it ought to be impressed upon them that they should not allow any further burden to be placed on the rate-payers if they could possibly help it, until the basis for levying local taxes had been reformed.

The Report was then adopted.

The CHAIRMAN observed that the next business of the Council on the agenda was to "consider and resolve upon the subject of compensation for unexhausted improvements."

Those who were present at the meeting in June would remember, perhaps, in what position the matter was then left. When the adjournment of the debate was carried, on the motion of Mr. Biddell, the following resolution, prepared by the Business Committee, and proposed by Mr. Masfen, was before the meeting: "That this Council considers it necessary for the proper security of capital engaged in husbandry that, in the absence of a lease or agreement to the contrary, the outgoing tenant should be entitled to compensation from the landlord or incoming tenant for the unexhausted value of his improvements—subject to previous consent of the owner in case of buildings, drainage, reclamation, and other improvements of a permanent character; and that, at the same time, the landlord should be paid by such outgoing tenant for dilapidations and deteriorations, the amounts respectively due to be determined by valuation." Upon that motion the following amendment was moved by Mr. LONG, and seconded by Mr. READ: "That this Council considers it necessary for the proper security of tenants' capital engaged in husbandry, that, except when otherwise provided by agreement, the outgoing tenant should be entitled by legislative enactment to compensation from the landlord or incoming tenant for the value of his unexhausted improvements, such value to be ascertained by valuation in the usual way."

Mr. LONG said he must ask permission to withdraw his amendment, and to substitute for it the following: "That this Chamber considers it necessary for the proper security of tenants' capital engaged in husbandry, as well as for the encouragement of the production of the greatest amount of home-grown food, that the outgoing tenant should be entitled by legislative enactment at the expiration of his tenancy to compensation from the landlord or incoming tenant for the value of his unexhausted improvements."

The first amendment having been withdrawn with the consent of the meeting,

Mr. LONG proposed that which he desired to substitute, and it was seconded by Mr. W. Lawrence.

Mr. BIDDLE (Suffolk) said at the meeting in June he deprecated their coming to any decision on the question then, and he thought that what had occurred in some of the Chambers since justified that view. The Business Committee were still by no means unanimous as to what course was best, and seemed in fact to think that it would be better not to have any legislative interference at all for the present. The Suffolk Chamber of Agriculture at its meeting last week took a similar view; but they were unanimous in thinking that six months' notice to quit was not sufficient, but that the notice ought to be extended to twelve months, eighteen months, or two years, and he believed it was the general feeling of the farmers of England that some alteration ought to be made in that respect. The question of compensation was beset with difficulties, as he thought they had all found out, in consequence of the different customs which existed in different parts of the country, and he hoped that legislation would be confined to cases in which no lease or agreement was in force.

Sir G. JENKINSON, M.P., observed that since the last meeting Mr. Long had expressed his concurrence in his opinion that it would be a fatal blot in any resolutions which might be adopted if the interests of landlords as well as those of tenants were not provided for. Landlords had, indeed, power to sue in a court of law in cases of dilapidation; but they naturally shrank from the obloquy of suing, and they ought like tenants to have the advantage of arbitration.

The CHAIRMAN being about to put the amendment,

Sir J. PAKINGTON, M.P., remarked on the undesirableness of the meeting being called upon to vote on an amendment which it had not seen or heard till a few minutes before.

Mr. W. BAKER (Surrey Chamber) expressed doubt whether the question was yet ripe for legislation ("Oh, oh"). In these days there was great danger of having too much legislation, and he thought that before any bill was introduced relating to unexhausted improvements, there ought to be a definite understanding as to what such improvements were. Chambers of Agriculture now occupied an important position in the country, and let them take care not to do anything rashly.

Some discussion here took place with regard to the question of order, several gentlemen contending that Mr. Long was not entitled to submit his amendment at that stage of the meeting, and the result was that, with Mr. Long's consent, the amendment was withdrawn for the present.

Mr. CARRINGTON SMITH then proposed the next amendment on the agenda paper, viz., "That it is desirable to introduce into Parliament a bill entitled 'Landlord and Tenants' Property Bill,' such bill to enact that on the expiration of a tenancy the landlord may claim, under an arbitration award, the amount due to him for dilapidation by default of tenant, or the tenant may claim in like manner for unexhausted improvements resulting from his occupation." The question was, should or should they not have legislation? and he unhesitatingly gave his voice for it. Two objections were urged against it—that it would be in some measure an attack on property, and that it would interfere with freedom of contract; but both seemed to him groundless. He thought there would be no attack on property, but simply a recognition of a new kind of property, which would tend to the investment of additional capital in the soil; while as regarded freedom of contract, all that was desired was that tenants should, as respected unexhausted improvements, be placed in a similar position to that now occupied by landlords in reference to dilapidations. It would be of no use for the tenant-farmers to approach the House of Commons as a class unless they had the landlords at their side. United they would be powerful, divided they would be weak.

Mr. T. NEVILLE (Staffordshire Chamber), in seconding the resolution, said, believing that it was impossible to establish a definite custom for all parts of the country, he thought legislation was required which would have the effect of enabling the landlord and the tenant to appeal to arbitrators to decide what was due to each. He thought it desirable that the arbitrators should be appointed by some public body, instead of their being left to the old system under which each party appointed an arbitrator, who did not look to the justice of the case, but cared only for success, the result often being simply that the man of the greatest ability carried the day.

Mr. T. BROWN (Norfolk Chamber) thought that too much stress had been laid on the words "freedom of contract." Some gentlemen had spoken on that point, as if a revolution were threatened by interference with freedom of contract; but surely the Council were not going to be frightened by such a bugbear as that. The Legislature had already interfered with such freedom in various cases. For instance, by the Licensing Act it prevented a man from contracting for the supply of a pint of beer at all hours (laughter). Assuming that at present landlord and tenant had equal contracting powers, if it could be shown that they contracted to the injury of the nation, then the State had not only a right, but was bound in duty to interfere. He was at a loss to conceive why a landowner should object to an equitable system of compensation for unexhausted improvements, it being notorious that for one application for a farm when it was in bad condition there were ten when it was in good condition. The system of compensation had long been in operation in Lincolnshire, and he had yet to learn that there were more frequent changes of occupation, or a smaller number of applicants for a farm, or that land in proportion to value let for less money, in that county than where no such custom prevailed. It was said that the contemplated change would, by necessitating the use of a larger amount of capital, render it more difficult for young men to obtain farms. He demurred to that opinion, believing that it took less capital to manage a farm which was in good heart than to bring one into that condition. He also held that what was now proposed would be beneficial to the labourer, by tending to continuous employment, and to the community in general, by tending to increased production. For these reasons he thought the State was bound to make the adoption of such a system as prevailed in Lincolnshire imperative throughout the kingdom.

Mr. T. DUCKHAM (Herefordshire Chamber) expressed his surprise that a practical man like Mr. Biddell should oppose legislation. All they wanted to do then was to lay down the broad principle that, as the landlord had security with regard to dilapidations, the tenant should have security with regard to any improvements which he might make by expenditure out of his own capital. At present, when a six-months' notice to quit was given, or the tenant died, the capital invested in the soil had to be left there to benefit some one else, and the time was come when something should be done to remedy that state of things. He did not agree with the gentleman who thought the question was not ripe for legislation. He could not conceive where he had been living (laughter). In his opinion there was evidence in

all directions that both the agricultural mind and the mind of the public generally were fully prepared for a change. What was proposed was not at all antagonistic to the interests of landlords: the interests involved were mutual. It must be the interest of the landlord to have his estate improved by good farming, no less than it was that of the tenant to have security for his capital, or that of the country generally to have the land made as productive as possible.

Mr. HICKS (Cambridgeshire) supported the original resolution. As a landowner, he was strongly in favour of the tenant being recouped at the expiration of his tenancy, provided it were a yearly hiring; but he protested against any interference with freedom of contract, which lay at the root of all confidence in matters of business in this country. Let everybody be free to do what he liked; and if they trusted to the law of the land, let it be just. As regarded the term "unexhausted improvements," he believed that what was meant was "unrecovered capital." In using the words "unexhausted improvements," they would be speaking of what it would be found impossible to estimate.

A MEMBER: It means improvements resulting from the tenant's occupation.

Mr. HICKS: Yes, but the question arose how long he had occupied. A man might have entered on a farm when he was very young, held it for 50 years, and made it a very good farm, and would anyone tell him that in such a case there could be any unrecovered capital at the end of 50 years ("Yes")—that is, from the mere tillage of the land ("Yes, decidedly")? Those who said that, must know very little about the value of money (laughter). He believed that the difference in money value between a 99 years' lease and the fee simple was little or nothing; and he maintained that the capital laid out during an occupation of 50 years must have been recovered long before the end of that time. The amendment opened a door which he would recommend the Council to avoid.

Mr. T. HORLEY (Warwickshire Chamber) wished to state his reasons for supporting the amendment, in preference to the original resolution. He thought that if they were to have any legislative enactment on that subject, as he felt that they must, to give landlords and tenants power to contract themselves out of the Act would be to make it perfectly useless. They had tried how far they could go in the right direction by the way of custom, and the result was not satisfactory. The increase of population could not fail to have some weight in any legislation. They did not wish for any exceptional legislation; what they wanted being a general measure which would recognise their rights and at the same time be beneficial to the country at large. No one who was conversant with agriculture could deny that a large portion of the land of this country suffered in condition from the want of security for the capital of the tenant, and unless that defect were remedied, the nation could not expect any improvement. The condition of the labourers had for some time past excited very strong feelings in the public mind. What could be more prejudicial to the labourer than the fact that during the closing period of a lease or a tenancy, a large portion of the previous farm labour was done away with. He felt more strongly every day of his life that legislation was indispensable.

Mr. J. RUSSON (Worcestershire) thought there was no necessary opposition between the amendment and the original resolution, the former merely pointing to the manner in which the object was to be aimed at.

Mr. BOWEN JONES (Herefordshire) said, [one gentleman having asked what unexhausted improvements were, he wished to say that in his opinion they were what was left in the soil, having come out of the tenant's own capital at the expiration of the tenancy—that which he had not derived a full return for, and the value of which was left for his successor. He could not conceive how the principle of compensation for that could be considered unjust to the landlord. A gentleman had just asked how it was possible that a man who had occupied a farm for 50 years should have any unrecovered capital left in the soil. He would ask him in reply whether, if an outgoing tenant under such circumstances had spent £1,000 on bone-dust and oilcake during the last year of his tenancy there might not be some unrecovered capital left if he received a six months' notice to quit. That question had now been before the public for at least four-and-twenty years, and, considering the present state of agriculture

in many counties, it seemed to him absolutely necessary that something should now be done. He thought the amendment went too much into detail, and agreed with Sir George Jenkinson that the rights of the landlords in cases of dilapidation should be recognised, the remedy of arbitration being necessary for them as well as for tenants; but, if they did not take up that question of compensation and carry it out, other people would take it out of their hands.

Mr. JABEZ TURNER (Peterborough) denied that there was any antagonism in that case between the interests of tenants and those of landlords. As the owner of a small estate in Lincolnshire he had, in his own interest as well as that of the tenant, acted on the principle of a good Tenant-Right.

Sir M. H. BEACH, M.P., asked how this compensation was to be secured, whether by the custom of the county, as in Lincolnshire, or by agreement, as was the practice in many parts of England. He could assure them that there were more instances than they were aware of in which every possible compensation for unexhausted improvements was secured to the tenant by agreement. Still there were other cases in which no custom of the county or agreement existed, and the question was whether in those cases compensation should be enforced by law. For himself he admitted that it ought, and he was quite willing, either in the Chamber or elsewhere, to support a bill for that purpose. It was necessary, however, that they should look the difficulties of the matter in the face. It had been suggested that the Lincolnshire system might be made imperative throughout England, but whoever considered the subject for one moment must see that that was impossible. Besides, it would occur to everyone that that which was an improvement in Lincolnshire might be anything but an improvement in Hereford or Northumberland. The conditions of soil and climate might vary; manures beneficial to one soil might be absolutely mischievous to another; and the course of farming that was right and proper in one part of England might be entirely wrong in another. The variety was so great that it would be necessary, if anything was to be done by law, that something or other should first be done with the view, if possible, of consolidating all these customs. Another resolution suggested by the Business Committee was that through this Council and Associated Chamber the allowances adapted to the different districts should be defined, and schedules prepared in accordance therewith; and certainly some such operation as that was a necessary preliminary to legislation. Consequently the adoption of Mr. Carrington Smith's amendment was to put the cart before the horse. Supposing an act were passed in the very words of the motion; remembering that it would have to be interpreted by lawyers, who would take care to squabble over every word, would it be in any degree an effectual measure unless it was clearly understood in every district throughout England what were unexhausted improvements, what dilapidations, and other things of that kind? He apprehended that the purport of the term "unexhausted improvements" was by no means certain; but they were all agreed that something must be done by law. It would greatly simplify the matter, therefore, if they introduced the words "by law" in the original motion.

Mr. C. S. READ, M.P., said he could not think of adopting the suggestion of Mr. Hicks, that he should substitute "unrecovered capital" for "unexhausted improvements." It might be that unrecovered capital represented no improvement at all, that being in fact very often the case; whereas, if the words "unexhausted improvements" were used, supposing there was no improvement nothing would have to be paid. No one could doubt that at present landlords did appropriate to themselves what belonged to the tenant. They might talk themselves hoarse on that subject, but they would never get a custom throughout England, unless they had some legislative enactment to back them (Hear, hear). He would be perfectly contented then with the passing of a resolution affirming the principle that there should be adequate security for unexhausted improvements. Whatever bill might be passed, details must be left to be worked out by practical men, according to the wants of different localities.

Mr. STORR (Notts) said the Chamber which he represented, and he believed, he was authorised in making a similar statement with regard to the Northamptonshire Chamber, considered that the object might be attained without legislation (Cries of "No, no"). They all knew what legislation had done for the land in Ireland. It had put tenants in a prosperous condi-

tion; but what about the landlords? Where there not many cases in which the tenant had obtained almost the fee simple of the land, under the name of compensation, and was that an inducement to them to proceed in that direction? No doubt there were many cases in which sufficient allowance was not made to the outgoing tenant for oilcake and other things of that kind; but he believed that in the counties of Nottinghamshire and Lincolnshire, farmers were perfectly satisfied with the Tenant-Rights which they had at present, and if they were more extended, that would, he thought, amply satisfy everyone. As to arbitration, the establishment of a court of arbitration by law would create endless litigation. If a bill were introduced in Parliament, it would, perhaps, go much further than any of them desired.

Mr. WILBRAHAM EGERTON (Cheshire) thought the amendment went too far, and that it was undesirable for the Chamber to pledge itself to any distinct measure on the subject. In the Cheshire Chamber the resolution suggested by the Business Committee had been accepted, with the addition of the words: "That the amount payable on either side should be capable of being legally enforced by arbitration." That met all cases where agreements did not already provide compensation for unexhausted improvements, which, however, was done on many estates in his county.

Mr. FISHER (Northamptonshire) said it appeared that the view of the Chamber which he represented was not the popular view, that Chamber having passed a resolution to the effect that what should be arrived at was the extension of custom under the authority or through the influence of Chambers of Agriculture. As regarded the slow growth of custom, the moment you established it there it was. He had heard the remark that it would take twenty years to establish a custom; but he replied that the moment it was initiated the tenant had the benefit of it, and its not having existed for twenty years was of no consequence, except as that it might weigh with a jury in an action for compensation. When a custom was accepted by landlord and tenant, practically it was as good as if it had been established for a long period.

Sir J. PAKINGTON observed that the main object of the Chamber was to establish a principle, and what was that principle? He held that it was most desirable for the landowner, the occupier, and the public that, in these days of improved farming, the farmer should be enabled to lay out his capital with due and fair security to himself; and he believed that any owner who resisted this principle was blind to his own interests. It was just; it was sound; it was politic. Then came the question whether or not it was desirable that they should go to the legislature to establish this principle; and so far as he could form an opinion, after a good deal of reading and reflection, he for one had no objection to do so; but his idea was that they ought to go to the legislature merely to ask that this should be established as the general law of the land on the subject, and it seemed to him that if the legislature assented to that course a very great step would have been gained. Then he came again to that which really seemed to be the main question at issue before the Chamber, and which was most likely to lead to a difference of opinion—namely, was it desirable that legislation should be so shaped as to destroy all independence and power of agreement between landlord and tenant? Upon this he did not mean to express a decided opinion, for he regarded the matter as so important to understand that every prudent man should hold himself free to be guided by whatever he might hereafter hear; but, according to his present impression, they ought to be cautious how they destroyed the power of independent action between landlord and tenant. It would be a serious thing to step in between any two classes of her Majesty's subjects, and say that freedom of contract, so far as they were concerned, should be swept away; and they might depend upon it that they would have gained much if they could get it laid down as the law of the land that henceforth, in the absence of special agreement to the contrary, there should be this power to recover the value of unexhausted improvements. But they should not embarrass themselves with details. Let that branch of the subject be left to future consideration; but it was an important question whether they should advise such a great change as by law doing away with freedom of contract. At present he owned he could not see his way to such a change; and, under these circumstances, while assenting to the general principle, he should vote against Mr. Smith's amendment, and in favour of the original resolution, modified

by the introduction of the words "by law," as Sir M. Beach had suggested.

Mr. W. FOWLER, M.P., preferred the amendment to the original motion. Granting that it was essential to the life of a nation that contract should be free, there were nevertheless cases in which another principle might be laid down, and this was one of them. What they ought to do was to assert the definite principle that security should be given where there was a real improvement. In opposition to this had arisen the fear that if they took away the power to contract themselves out of such a law some awful result would follow; but no one had yet explained to him what that evil consequence would be, and that being the case, and believing that the law as proposed to be altered would be a great improvement, he did not see why it should not be binding upon everybody, and that none should be allowed to contract themselves out of it. The difficulties when they came to deal with details were no doubt extremely great. On the other hand, any act of parliament would certainly break down if it were full of details. What was wanted was an alteration of the common law, making it clear that the tenant should have certain rights under certain circumstances, and these circumstances must be put into such words, if they were to be found, as lawyers would not be able to squabble over. Some high authorities had said that where Tenant-Right custom existed farming was not so good as where it did not exist; and that opinion was expressed by Mr. Caird in his book on the "Agriculture of England in 1851." [A VOICE: "That was more than twenty years ago; he would tell a very different story now."] What Mr. Caird's opinion now was he did not know; but he did not agree with him in that which he had referred to, and in this he was confirmed by the observation of M. Lavale, who said that in Belgium, where custom was universal, it was a proverb with the peasant that the higher the valuation the better for the incoming tenant, because he entered upon a farm that was in good condition.

The Rev. Mr. PERRY said he would vote for the amendment if the mover would consent to omit the title of the Bill.

Sir G. JENKINSON, M.P., as a landlord, objected to the amendment, and preferred the original resolution, with the alteration suggested by Sir M. Beach. They were all tolerably well agreed upon the principle that some legislative enactment was required to make the tenant safe in laying out his capital for the improvement of the land. At the same time the details by which that was to be carried out were so difficult that it was impossible at that moment to arrive at a conclusion respecting them. He would impress upon them, then, that whereas there were persons—no matter what their reasons or their ultimate objects—who were anxious to sow dissension between landlord and occupier, the Chamber should let it go forth to the public that their opinions and views were unanimous as to the principle to be established, while they were not yet sufficiently matured in their conclusions as to the details by which the principle was to be carried out.

Mr. LIPSCOMB (West Riding) said the Chamber which he represented, thought that care should be taken to distinguish between the fixed capital of the landlord and the floating capital of the tenant. As agent for a large entailed estate he protested against expensive works being executed without proper supervision. He had known thousands of pounds to be expended on what was useless. (A voice: "Then they were not improvements," and Hear, hear). Let them not take a class-view of that matter. The Chamber which he represented considered that it would be premature to legislate as to what was to be allowed for the floating capital employed in tillage until they had settled among themselves what the allowances ought to be.

Mr. YOLLAND (West Yorkshire) said his Chamber felt that the question was surrounded with difficulties.

Mr. C. SMITH having, as the mover of the amendment, withdrawn the title of the Bill, in accordance with a suggestion previously made,

The CHAIRMAN then put the amendment with that omission, and it was lost, the numbers being 17 for, and 29 against.

Mr. T. ASKELL (Wilts), having declined to accede to a suggestion that he would withdraw an amendment of which he had given notice in favour of one of Mr. Read's, moved the following: (1.) "That this Council considers it necessary for the security of capital engaged in husbandry that the outgoing tenant shall be entitled to compensation for the unexhausted

improvements executed by him in buildings, drainage, flooding, road-making, and suchlike improvements, from the landlord, the landlord himself or by his agent having refused to execute such works; the valuers to take into consideration the time the tenant has derived benefit therefrom, the stability or otherwise of the erections, and their suitability to the use of the farm, and also any dilapidations and deteriorations through neglect, allowing fair wear and tear through lapse of time."

(2.) "That, in the absence of a two years' notice to quit a farm held on a yearly tenancy, or in the absence of two years' notice that a lease of a farm will not be renewed, the outgoing tenant shall be entitled, in addition to the customary acts of husbandry, compensation for unexhausted tillages and manures; such tillages and manures being confined to oilcake, corn, and seeds consumed by cattle, sheep, and pigs, and guano and other artificial manures used in raising root and other spending crops during the last two years of the tenancy, and that marling, liming, chalking, boning pastures, and applications of a more lasting character be confined to what have been expended the last four years of the tenancy." This amendment having been seconded by Mr. Pennington, of Swindon, was put and lost.

Mr. READ, M.P., moved the following amendment: "That this Council considers it necessary for the proper security of capital engaged in husbandry that, in the absence of a lease or agreement making equivalent provision, the outgoing tenant should be entitled by law to compensation for the unexhausted value of his improvements, while, at the same time, the landlord should be paid for dilapidations and deterioration beyond fair wear and tear."

Mr. LIPSCOMB having seconded this amendment,

Mr. W. FOWLER M.P., objected to the words "making equivalent provision," as being vague and indefinite, observing that such words could not be used in an act of Parliament.

Mr. READ expressed his willingness to alter the wording.

Sir J. PAKINGTON, M.P., urged the importance of unanimity, and hoped that the amendment would be so altered as to secure that.

Mr. READ said, having been asked what he meant by "improvements," he begged to refer for explanation to the words of the Irish Land Act, which said that an improvement must be "suitable to the holding, and increase its letting value" (Hear, hear).

After some discussion, Mr. READ consented to submit the amendment, with the consent of the seconder, in the following modified form: "That this Council considers it necessary, for the proper security of capital engaged in husbandry, that when such security is not given by lease or agreement the outgoing tenant should be entitled by law to compensation for the unexhausted value of his improvements, while, at the same time, the landlord should be paid for dilapidations and deteriorations caused by default of the tenant."

Mr. WHITTAKER said he must oppose it, because it tended entirely to destroy the right of private contract.

Mr. MUNTZ expressed his entire approval of the amendment as amended. The question they had to decide was, did they intend tenant-farmers to have security or not. If they did intend that, let them not put in a resolution words to the effect that an agreement should be allowed to prevent it.

The CHAIRMAN, after remarking that he was opposed to the amendment in its original form, but that he thought Mr. Read had met the objections in a fair spirit, put the amendment, and it was carried unanimously.

Mr. READ, M.P., alluding to other amendments of his on the paper, said that after that decision he did not care about Nos. 2, 3, 4, and 5, and would confine himself to moving No. 6, the last of the series.

Sir M. BEACH objected to the withdrawal of the second resolution, which affected, he said, the rights of landlords, and deprecated its rejection.

After some discussion with regard to the precise wording of it, the second amendment was ultimately proposed by Mr. READ in the following amended form: "That such compensation should be paid by the landlord for buildings, drainage, reclamation, and other works of a permanent character executed with his consent, after making proper allowance for fair wear and tear; and that buildings and fixtures erected without the consent of the landlord should be removable by the outgoing tenant, the same making good any damage to the estate."

This amendment was then seconded by Sir M. BEACH, M.P., and agreed to, but with some dissentients.

On the motion of Sir G. JENKINSON, M.P., seconded by Mr. T. H. PEARCE (Worcestershire) the following rider was added to the amendment: "That such compensation shall be subject to the previous consent of the owner in the case of buildings, drainage, reclamations, and other improvements of a permanent character."

Mr. PELL, M.P., proposed as an additional rider the following: "Under the same inspection as now exists in the case of settled estates."

This was seconded by Mr. LIPSCOMB, and on being put from the chair was negatived.

On the motion of Mr. READ, M.P., seconded by Sir MASSY LOPES, M.P., the following amendment, being the last of Mr.

Read's series, was then carried unanimously: "That this Council considers absolutely necessary a change in the law of tenancy, so that in all yearly holdings, the letting and hiring of agricultural land, as well on entailed and ecclesiastical as on other estates, shall be subject to at least twelve months' notice to quit—cases of insolvency excepted."

On the motion of Sir M. BEACH, M.P., it was resolved: "That a Special General Meeting of Members of the Central Chamber be held after the Annual Meeting on Wednesday, December 11th, to consider the operation of the Contagious Diseases (Animals) Act, and to determine what action should be taken thereupon."

A vote of thanks was given to the Chairman, and the meeting separated.

ROYAL AGRICULTURAL SOCIETY OF ENGLAND.

MONTHLY COUNCIL, Wednesday, Nov. 6, 1872.—Present: Earl Cathcart, President, in the chair; Lord Chesham, Lord Kesteven, Lord Tredegar, Lord Vernon, the Hon. Wilbraham Egerton, M.P.; Sir Massey Lopes, Bart., M.P.; Sir Watkin W. Wynn, Bart., M.P.; Mr. Booth, Mr. Bowly, Mr. Cantrell, Mr. Davies, Mr. Dent, M.P.; Mr. Druce, Mr. Brandreth Gibbs, Mr. Holland, Mr. Wren Hoskyns, M.P.; Mr. Hornsby, Mr. Bowen Jones, Colonel Kingscote, M.P.; Mr. Leeds, Mr. McIntosh, Mr. Masfen, Mr. Milward, Mr. Paine, Mr. Randell, Mr. Ransome, Mr. Ridley, M.P.; Mr. Stone, Mr. Shuttlesworth, Mr. Torr, Mr. Jabez Turner, Mr. Wakefield, Mr. Webb, Mr. Welby, M.P.; Mr. Wells, M.P.; Mr. John Wells, Mr. Jacob Wilson, Professor Simonds, and Dr. Voelcker.

The Duke of Bedford, Woburn Abbey; the Earl of Craven, Ashdown Park, Shrivensham; Lord Skelmersdale, Lathom House, Ormskirk; and Mr. R. Milward, Thurgarton Priory, Southwell, were elected *Governoas* of the Society.

The following new members were elected:—

Archer T., jun., Dunston, Gateshead.
Atkinson W., Burnside Hall, Kendal.
Baker Frederick, Manor Farm, Frindsbury, Rochester.
Bassett Francis, M.P., The Heath, Leighton Buzzard.
Beckett Joseph, Belvedere, Whitchurch, Salop.
Bradley Edward, Cowbridge.
Braithwaite-Wilson C. W., Plumtree-hall, Milnthorpe.
Bridson J., Ridgway, Belle Isle, Windermere.
Catling, Captain R. C., Needham Hall, Wisbeach.
Claridge William, 51, Brook Street, W.
Collard Charles, Little Barton, Canterbury.
Cropper James, Ellergreen, Kendal.
Curling Edwin H., Brookland, Whitstable.
Day John, Chilham, Canterbury.
De Salis, Rev. H. J., Portnall Park, Staines.
Elgar Frederick, St. Margaret's, Rochester.
Fane, Colonel F., Fulbeck Hall, Grantham.
Fenton, David Henry, 70, Strickland Gate, Kendal.
France-Hayhurst, Major C. H., Bostock Hall, Middlewich.
Gordon, Admiral G. T., Ingledon, St. Michael's, Ashford.
Griffin J. W., Towersey Manor, Thame.
Handley W., Green Head, Milnthorpe.
Harris Alred, Limefield, Kirkby Lonsdale.
Harrison Thomas J., Singleton Park, Kendal.
Harvey W. F., Thruxted, Chartham, Canterbury.
Hudson Charlie, Kinsham, Tewkesbury.
Hughes Frederick, Wallfield, Reigate.
Johnson Henry, Kendal.
Key William, Casterton Hall, Kirkby Lonsdale.
Laycock William, Woodville, Keighley.
Lefroy Charles J. M., Ithell Manor, Crondall, Farnham.
Metcalfe Anthony, Ravenstonedale, Tebay.
Morton John, Skelsmergh Hall, Kendal.
Mullins Isaac, Alvington, Lydney.
Name Charles, Copton, Faversham.

Pentelow John, Rounds, Thrapston.
Philips, Captain Edwin, Rhual, Mold.
Poole Cudworth H., Marbury Hall, Whitchurch, Salop.
Puckridge A. F., Higham Court, Woodford.
Punchard F., Underley, Kirkby Lonsdale.
Pye Henry, St. Mary's Hall, Rochester.
Randall John, Stroud.
Reeves William, Chittenden, Staplehurst.
Robinson John, Wingham, Sandwich.
Sankey R. J., South Hill, Ashford.
Schollick J. S., Fortescue, Australia.
Scott John, Wouldham, Rochester.
Stavert William, Helsington Laiths, Kendal.
Talbot John G., M.P., Falconhurst, Edenbridge.
Taylor Richard, New House, Kendal.
Vivian H. Hussey, M.P., Park Wern, Swansea.
Walker Adam, Denmark House, Kendal.
Williamson B., Canal Ironworks, Kendal.
Wilson G. E., Dallam Tower, Milnthorpe.
Wilson E. Hagworthingham, Spilsby.
Wilson John, 2, Albion Place, Northampton.
Wilson Thomas, Cunswick Hall, Kendal.
Wilson T., Newby, The Landing, Ulverston.
Winn Mary Ann, Uppingham.
Winn William Fothergill, Bowerbank, Penrith.
Yeates G. H. B., Brettargh Holt, Milnthorpe.

FINANCES.—Colonel Kingscote, M.P., presented the report, from which it appeared that the Secretary's receipts during the past three months had been duly examined by the committee, and by Messrs. Quilter, Ball and Co., the Society's accountants, and found correct. The balance in the hands of the bankers on October 31 was £999 8s. 8d., and £2,000 at deposit. The quarterly statement of subscriptions and arrears to September 30, and the quarterly cash account, were laid on the table. The arrears then amounted to £1,343. The committee recommended that 16 members in arrear of their subscriptions be removed from the list of members. The committee also recommended that Lord Bridport's name be substituted for that of the late Colonel Challoner as one of the trustees in whose name the Society's property is invested; and that the distinction between the separate funds possessed by the Society be thus removed.—This report was adopted.

JOURNAL.—Mr. J. Dent Dent, M.P., reported that the President had offered a prize of £100 for the best essay "On the Potato Disease and its Prevention." They recommended that the prize be accepted with thanks, that the competing essays be sent in, subject to the rules of the Society, on or before May 1, 1873, and that advertisements giving notice of the prize be inserted in the French and German scientific journals as well as in the usual English newspapers. All essays to be written in English or accompanied by an English translation. They also reported that the issue of the *Journal* had been de-

layed, and its bulk, and consequent cost considerably increased by the publication of the report of the trial of Kidd *versus* the Royal Agricultural Society, as ordered by a special Council in August. A paper by Dr. Voelcker on the substances used in the adulteration of oilcakes, and the report of the engineer judges on portable engines had, in consequence, been postponed until the February number. The committee had examined and passed accounts amounting to £723 15s. 9d. in connection with the present *Journal*, and one of £19 for woodcuts for the February number. They recommended that an application made by Messrs. Marshall for six electrotypes of their thrashing machine, as delineated in the report of the trials of implements, be granted.

The judges of plans for labourers' cottages exhibited at Cardiff having advised the publication of a design by "Rustic," and Mr. Hine, Patent Brickworks, Worcester, the author of it, having placed it at the disposal of the Society, Mr. Hunt, the Society's surveyor, had offered to prepare elevations and specifications for the same. The Committee therefore recommended that Mr. Hunt's offer should be accepted with thanks, and that Mr. Hine be paid £7 10s., the sum he asked, for his designs, and that the plans, elevations, and specifications be published in this *Journal*.

A letter having been read from the Société Centrale d'Agriculture de Belgique, requesting the Royal Agricultural Society to supply their Society with periodical information as to the state of the crops and of prices in Great Britain, the Committee recommended that an answer be sent, stating that this Society has no special means of obtaining such information.

The President laid before the Committee a letter from M. Drouyn de Lhuys, President of the Société des Agriculteurs de France, asking for information as to the tenant-right, and customs of compensation for unexhausted improvements existing in different districts in England. The Committee recommended that a copy of the evidence taken by Mr. Pusey's Committee of the House of Commons in 1848, and of Mr. C. Cadle's paper in the *Journal* of 1868 on "Agricultural Customs and Covenants," be forwarded to M. Drouyn de Lhuys, with an intimation that the Society does not possess any more accurate information on the subject.

The forms of specifications for the implement catalogue having been referred to this Committee, they recommended that in future catalogues the compulsory insertion of the name of the inventor or improver be omitted, and that the Society only require the name of the implement, the name and address of its manufacturer, and the lowest selling price, as exhibited; and that any further description, which will be optional, shall not exceed six lines of printed matter, to be charged for at the rate of three shillings per line.—This report was adopted.

CHEMICAL.—Mr. W. Wells, M.P. (chairman), reported that, since the meeting of the Council in July, the trial of Kidd *v.* the Royal Agricultural Society had taken place at Leeds. The trial was held before Mr. Justice Blackburn and a special jury, and lasted for three days. The jury deliberated for five hours, and ultimately gave a verdict for £10 10s. against the Society, which will carry costs. A *verbatim* report of the proceedings had been inserted in the *Journal*; and the action that had been taken by the seed-crushers in Hull had led the Committee to believe that the trial, although unfortunate in a pecuniary point of view, had been of considerable value to the agricultural interest. To illustrate this, they appended extracts from a letter addressed by the secretary of the Hull Pure Linseed Cake Association to the *Leeds Mercury*, dated Sept. 25, 1872:

"Our Association is not formed for the purpose of binding the crusher* to sell only pure linseed cake, but for preventing

him selling as pure linseed cake that which is not; and it will be prepared to take strong measures against any one doing so.

"The Association, however, requires those making composite cakes to sell them as such, and not as linseed cakes."

Under the present circumstances, the committee, profiting by the experience they have gained, and while feeling the necessity of the utmost vigilance in preparing their quarterly reports, and also of having due regard to the law as laid down by the judge in his summing up at the late trial, expressed a hope that the Council would authorise the continued publication of them; and they therefore begged to lay before the Council the quarterly report, which, in accordance with the resolution passed at the last meeting of the Council, had been hitherto withheld. This report having been adopted, it was moved by Mr. Wells, M.P., seconded by Lord Tredegar, and carried unanimously: That the deferred quarterly report be sent to the agricultural newspapers for publication.

QUARTERLY REPORT OF THE CHEMICAL COMMITTEE.—1. Mr. Henry McLaren, of Offerton Hall, Sunderland, has sent two samples of compound cake (Nos. 1 and 3 in the following analysis), which had been supplied instead of the pure linseed cake ordered. In each Dr. Voelcker found but little linseed, and, apparently, a large proportion of hard olive kernels, locust meal, cotton cake, and starchy matter. The hard woody shell of the olive kernels was too coarsely ground to be useful for feeding purposes. Another sample sent by Mr. McLaren, and sold to him at £11 10s., was a pure linseed cake (No. 2), and appears to be cheaper at that price than the compound cake No. 1 would be at £8 8s.; or No. 3, if sold at £9 9s., yet the actual prices paid were £16 a ton for No. 1, and, he believes, £10 10s. for No. 3.

Composition of Two Samples of Mixed or Compound Cakes, sent by Mr. H. McLaren, Offerton Hall, Sunderland:

	No. 1.	No. 3.
Moisture	10.76	11.53
Oil	8.60	9.96
*Albuminous compounds (flesh-forming matters)	19.69	22.12
Mucilage, sugar, and digestible fibre ...	33.99	32.22
Woody fibre (cellulose)	18.84	15.16
**Mineral matter (ash)	8.12	8.96
	100.00	100.00
*Containing nitrogen	3.15	3.54
**Containing sand	3.24	3.40

No information has been received as to the names of the parties from whom the cakes were purchased.

2. Mr. Stephen H. Allen, of Eastover, Andover, has sent a sample of artificial guano, sold at £3 10s. per ton. The following are the results of the analysis of the sample:

Composition of a Sample of Artificial Guano, sent by Mr. Stephen H. Allen, Eastover, near Andover.

Moisture	17.57
*Organic matter	17.84
Phosphoric acid	.12
Equal to phosphate of lime	[.26]
Oxide of iron and alumina	7.66
Carbonate and sulphate of lime	15.31
Alkaline salts and magnesia (chiefly common salt)	5.64
Insoluble siliceous matter (sand)	35.86
	100.00

*Containing nitrogen	.82
Equal to ammonia	.99

This so-called guano contains merely traces of phosphate of lime, and consists of a mixture of some nitrogenous organic refuse matter, with a preponderating proportion of sand and other useless earthy matters. Its

strong smell is due to bone oil, which has no value whatever as a manure; and although sold at £3 10s., this guano is scarcely worth 15s. per ton. The committee believe they have already noticed this worthless compound in previous quarterly reports, but abstain from referring to it by name on the present occasion, as there appears to be some little doubt as to its identity.

3. The next case is one of nitrate of soda, a sample of which was sent by Mr. Alfred de Mornay, Cold Harbour, Wallingford, who states that he bought it of Messrs. Frederiek Edgington and Co., as standard nitrate, at £17 per ton.

100 parts of this nitrate of soda contained:

Moisture	...	...	...	3.98
Chloride of sodium (common salt)	...	...	...	22.73
Sulphate of lime and magnesia	...	...	...	.30
Insoluble matter	...	...	...	.14
Pure nitrate of soda	...	...	...	72.85
				100.00

Genuine commercial nitrate of soda contains from 94 to 95 per cent. of pure nitrate of soda, and from $1\frac{1}{2}$ to 4 per cent. of common salt.

4. A sample of adulterated guano was sent to the laboratory by Mr. Edward Knight, Smalprise, Sandon, Stone, Staffordshire, and found to contain in 100 parts:

Moisture	.....	13.57
*Organic matter	.....	25.71
Phosphate of lime, iron, and alumina	.....	18.49
Sulphate of lime	.....	11.16
Alkaline salts	.....	7.01
Insoluble siliceous matter	.....	24.06
		100.00
*Containing nitrogen	.....	5.76
Equal to ammonia	.....	6.99

This guano, it will be seen, yields only 7 per cent. of ammonia, and is adulterated with a considerable amount of sand and gypsum. In reply to a letter of inquiry for particulars respecting the price of this guano, name of seller, &c., the following note was received:

Smallrise, Sandon, Stone, May 30, 1872.

SIR,—I am in receipt of yours of the 22nd inst., with analysis of guano, and in reply to your inquiry as to whom it was purchased from, and the price, I beg to say that, as I did not purchase it as genuine Peruvian guano, I do not think it will be necessary to provide you with the names, &c.

I am, sir, your faithful servant,

Dr. Augustus Voelcker, London. EDWARD KNIGHT.

5. The last case is one of bone-meal, a sample of which was sent by Mr. Robert Rawlinson, Graythwaite, Ulverston. Mr. Rawlinson writes to Dr. Voelcker:

I should much like an analysis of the sample I sent you but I doubt if I am entitled to it by the rules of the R.A.S.E. as the circumstances of the case are somewhat peculiar. The bone-meal was not directly bought by me, but by a tenant, who is bound by his lease to expend a certain sum annually in either bone or lime. By obtaining your opinion I protect myself, and could come down on the tenant if I wished, but my inclination is to protect him. I should be gratified by your advice how further to act in the matter, and any further information I can get I will willingly supply. I may add that in letting a farm this year I have taken a higher rent, and bound myself to expend a certain amount in bones or lime, so that I avoid the difficulty which now occurs.

Yours faithfully, ROBERT RAWLINSON.

The following are the results obtained in the analysis of this bone-meal:

Composition of a Sample of Bone-meal, sent by Mr. Robert Rawlinson, Graythwaite, Ulverston. Sold at £9 2s. 6d. per ton.

Moisture	...	...	...	19.72
*Organic matter	...	...	...	32.91
Phosphate of lime (bone phosphate)	...	...	...	26.82
Sulphate of lime (gypsum)	...	...	...	6.99
Sulphate of soda (glauber salt)	...	...	...	9.24
Chloride of sodium (common salt)	...	...	...	2.60
Insoluble siliceous matter	...	...	...	1.72
				100.00

*Containing nitrogen	...	...	...	3.05
Equal to ammonia	...	...	...	3.70

Genuine bone-meal seldom contains more than 10 to 12 per cent. of moisture, and yields from 45 to 48 per cent. of bone-phosphate, and from 4 to $4\frac{1}{2}$ per cent. of ammonia. The sample sent by Mr. Robert Rawlinson, it will be seen, contains not quite 27 per cent. of bone-phosphate, and is contaminated with sulphate of lime and glauber salt, which substances do not occur in genuine bone-meal. It is moreover mixed with some organic refuse matter, and is not worth more than £6 6s. to £6 10s. per ton. In a subsequent letter Mr. Rawlinson writes:

"In reply to yours of the 22nd instant, I beg to state that I intend to get redress for my tenant at my own expense, as this country is over-run with agents of manure manufacturers; and the farms being small, and the tenants men of very small capital, they are consequently at the mercy of dealers."

This bone-meal was sold to Mr. Rawlinson's tenant by a local agent of a large Liverpool firm, who state that they have imported as much as 10,000 tons from America, that they gave no guarantee further than that it is the meal it is represented to be.

The Secretary then read a communication from the Secretary of the Lincolnshire Agricultural Society, enclosing a copy of the following resolutions passed by the Council of that body at a meeting held at Lincoln on Friday, October 11, 1872.

(1). Resolved unanimously, on the motion of W. E. Welby, Esq., M.P., seconded by Mr. Charles Clarke (of Scopwick)—"That this Society, in recognition of the continued efforts of the Royal Agricultural Society of England to prevent adulterations of feeding stuffs and manures, do offer to the Council of the said Society a contribution towards the expenses incurred by them in defending the action of Kidd *versus* The Royal Agricultural Society of England at the recent assizes at Leeds."

(2). Resolved unanimously, on the motion of Edward Heneage, Esq., seconded by Mr. Richard Robinson "That upon the recommendation of the Finance Committee the sum of £100 be offered as such contribution."

(3). Ordered that the secretary forthwith communicate such offer to the Secretary of the Royal Agricultural Society.

Lord Kesteven explained that the Lincolnshire Agricultural Society, of which he was chairman at the time when the foregoing resolutions were passed, comprised nearly 2,000 members, that its Council consisted of the picked men of one of the foremost agricultural counties in England, and that they were a very active agricultural body. The members of the Society had derived so much benefit from the action of the Royal Agricultural Society in publishing the quarterly reports of the Chemical Committee, that they desired to express their sympathy with the Royal Agricultural Society in reference to the result of the Leeds trial. They knew no other way of showing this sympathy than by contributing to the expenses of the action; and he hoped that the Council of the Royal Society would receive the contribution of the Lincolnshire Society in the spirit in which it was offered.

Mr. W. E. Welby, M.P., as the author of the first resolution on the subject, wished the Council to understand that not only was the vote unanimous on the part of the

Council of the Lincolnshire Society, but that it was extremely popular amongst the general body of the members.

Lord Cathcart, as President of the Royal Agricultural Society, expressed his gratification at the sympathy of so important a body as the Lincolnshire Society with the course which had been pursued by the Royal. The vote of a sum of money was a tangible proof of the sentiments of the Lincolnshire Society, but otherwise he did not attach so much importance to the money itself as to the spirit which prompted its offer. He only wished that closer relations could be established between this Society and the local agricultural societies of the kingdom.

A question having been raised as to the propriety of the Royal Agricultural Society accepting a grant of money from any other society towards paying for the consequences of their own action, it was settled in the affirmative on the grounds that the object of the society was a national one, and that the Lincolnshire Society was desirous of contributing towards the expenses which had attended it. It was therefore proposed by Mr. Torr, seconded by Mr. Bowly, and carried unanimously:—

“That the Royal Agricultural Society return their sincere thanks to the Lincolnshire Agricultural Society for their generous sympathy in offering £100 towards the expenses of the late trial at Leeds, which they accept, and request the President of the Society to express this feeling to the President of the Lincolnshire Agricultural Society.”

GENERAL HULL.—Sir Watkin W. Wynn, Bart. (chairman), reported that the Committee had examined and approved of the plan of the railway sidings to the Hull showyard, and also that they had examined the proposed plan of the drainage of the showyard. They recommended that the question of drainage be referred to Mr. Randell, and that he be asked to confer with the local authorities on the subject. They also recommended that the Secretary be authorised to sign and seal the agreement with the Mayor and Town-Clerk of Hull, as amended. The report was adopted, and the amended agreement was signed in the presence of the Council.

IMPLEMENT.—Mr. T. C. Booth reported that the Committee recommended that implement prizes be offered at the Hull meeting to the amount of £365; and that the rules and regulations as printed be adopted, with one exception. This report was adopted.

SHOWYARD CONTRACTS.—Mr. Randell (chairman) reported the following recommendations of the Committee:

1. That No. 41 of the regulations referring to implement sheds be altered so as to stand thus: “No screen or exhibiter's offices in their stands must adjoin the main alley, nor exceed 20 feet in length.
2. That the horse-boxes in future have overhanging eaves.
3. That two telegraphs instead of one be provided, and that the numbers be provided on both sides of the boards.
4. That forty-eight hurdles be provided for the use of the stock judges.
5. That Mr. Hunt be requested to consider in what way the lavatories and cloak-rooms, &c., may be arranged more satisfactorily than heretofore.
6. That Mr. Hunt should prepare plans for the grand stand at the horse-ring previous to the next meeting of the Council.

This report was adopted.

EDUCATION.—Mr. E. Holland (chairman) gave notice that at the December meeting of the Council the committee would apply for a renewal of the education grant of £200 for the ensuing year, and that they will then be prepared with their scheme of examination for the approval of the Council.—This report was adopted.

SELECTION.—The report of this committee having been received, it was moved by Mr. J. Dent Dent, M.P., seconded by Mr. W. Wells, M.P., and carried unanimously, that Mr. Milward, of Thurgarton Priory, Notts, be elected a trustee, in the room of the late Colonel Challoner.

BOTANICAL.—Mr. W. E. Welby, M.P., reported that the committee had received the following report from the Consulting Botanist, Mr. Carruthers, F.R.S.

POTATO DISEASE.—From the general interest awakened by the alarming extent of the Potato disease, and from the matter being specially brought before me by Lord Cathcart, I have been preparing a plain account of the history and nature of this disease, which I propose, on the approval of the committee, to insert in the next *Journal* of the Society, illustrating it with several wood-cuts, and adding some hints as to the direction in which remedies may probably be obtained.

DODDER ON SWEDE TURNIPS.—My attention was called by Mr. Brandreth Gibbs to a field of Swede Turnips attacked by the Trefoil Dodder. I visited the field, which is near Dunstable on the Brandreth estate, and from Mr. Scroggs, the farmer, I ascertained that, two years before, the field had produced a good crop of Trefoil, which was here and there affected by Dodder. Mr. Scroggs cut down the Clover, leaving the diseased plants to die on the ground, and then ploughed them into the soil. No indication of the parasite appeared in the Wheat crop of last year; but it now appears on the turnips, the seed having been brought to the surface. As our native Didders attack plants of different and widely removed natural orders, and as I have found one species finding support even on grasses, it is most important that this pest of our Clover crops should be prevented from laying hold on our other crops. An impression is abroad that Trefoil Dodder (being an exotic) does not ripen its seed in England. This is a mistake. I obtained ripe seeds from plants on a Trefoil crop in a field near that where the turnips were growing. Every care must be taken to obtain clean Trefoil seed, and wherever the Dodder appears, the plants ought to be destroyed by fire.

PLANTS FROM CORDOBA.—A large case of cereals and some seeds of other plants, sent by the Government of the Argentine Republic, through the British Government, to the Royal Agricultural Society, was submitted to me for examination. They consist of 25 specimens of Wheat and 24 specimens of Barley, which were grown in separate plots of an experimental field near to and in connection with the national exhibition held at Cordoba in 1870. The seeds belong to species of *Cereus*, *Convolvulus*, *Phaseolus*, *Cassia*, *Ageratum*, *Bignonia*, &c., plants which are of no economical value. Some of them, which would be ornamental in the gardens, have already been introduced.

—This report was adopted.

LIVE STOCK PROTEST COMMITTEE.—Mr. Milward (chairman) reported that with reference to the outstanding protests against animals exhibited at the Cardiff meeting, the committee are of opinion:—

- (1.) That the animals exhibited as belonging to the Montgomeryshire breed were eligible to compete for the prizes offered for Welsh cattle including the Castle Martin breeds), the Montgomeryshire having long been known as a distinct breed in their native district.
- (2.) The committee had inquired into the protest against Mr. Robert Rendle's Guernsey heifer (No. 651), and, as he admits having substituted a purchased heifer for one which he had entered, but which died before the show, the committee recommended that Mr. Rendle be not allowed to compete in future for the prizes offered by the Society at any of its meetings.
- (3.) The committee had examined into the circumstances and correspondence attending the entry No. 417 made by Mr. T. Statter, jun., in class 40 at the Cardiff meeting, and had read the explanation which he sent in his own absence. They were unanimously of opinion that the entry was made in violation of the rules of the Society, and they therefore recommended that Mr. Statter be not allowed to compete in future for the prizes offered by the Society at any of its meetings.
- (4.) With reference to an alleged irregularity in an entry in the pig classes, the committee recommended that the Secretary be instructed to make further inquiries into the matter.

—This report was adopted.

VIENNA EXHIBITION COMMITTEE.—Mr. R. C. Ransome reported that information had been received from Her Majesty's Commissioners that the space applied for

by them for the exhibitors of agricultural machinery had, upon their urgent representations, been granted without curtailment, and that they are making the necessary preparations for the allotment of this space. The committee continued to be impressed with the importance of the exhibition, and the favourable opportunity it presents for cultivating useful relations with other national agricultural societies. They suggested the desirability of arranging for a report on the exhibition, and for an efficient representative of England on the International Jury for agricultural machinery. An application had been received from Messrs. Carter proposing to send a collection of seeds, and asking for the aid of the Society in doing so. The committee regretted that they could not recommend any individual application of this nature; but they felt that a combined effort of this kind on the part of the trade might claim the support of the Society. The committee had requested the Secretary to ascertain from Messrs. Eastons and Anderson the practicability and cost of preparing an interesting series of diagrams of the testing apparatus employed by the Society, with a view to the exhibition of such diagrams in the name of the Society. The committee hoped on a future occasion to recommend some definite plan for the attainment of the objects which they now indicated.—This report was adopted.

The Secretary presented an abstract report on the trade in animals, and its influence on the spread of foot-and-mouth and other contagious or infectious diseases. On the motion of Mr. Dent, M.P., this report was ordered to be printed, and circulated amongst the members of the Council for their private use, and for their individual consideration. Copies were also ordered to be forwarded to the Vice-President of the Privy Council, and the secretaries of the Veterinary Departments of the Privy Councils for Great Britain and Ireland, with a letter stating that the report was under the consideration of the Council. It was then referred to the Cattle Plague Committee (consisting of the whole Council), who were ordered to report to the Council in December.

The date of the commencement of the Hull meeting was fixed for Monday, July 14, 1873; and the meeting was arranged to continue during that and the four following days, closing on Friday, July 18. The trials of implements were ordered to commence on Monday morning, July 7, at nine o'clock.

Several letters were read in reference to foot-and-mouth disease, and to the cottage competition at Cardiff, and the Secretary was instructed to return suitable replies.

The list of the General Hull Committee was partially revised.

On the motion of Mr. R. C. Ransome, the Secretary was instructed to print the report of the engineer judges on the trials of portable engines at Cardiff, as soon as possible, and to issue it to exhibitors who may apply for it at a charge of 1s. per copy.

The Council adjourned until Wednesday, December 11, at noon, and the half-yearly meeting was fixed for Thursday, December 12, at noon.

KELSO FARMERS' CLUB.—At the monthly meeting Mr. Purves, Lintonburnfoot, in the chair, Mr. Scott, Spylaw, opened a discussion on "Whether it is more profitable for the farmer to let his corn by the acre or to cut it by days' wages?" He thought the prices which had this year been paid for cutting corn by the acre were out of all proportion to what had been given to those working by the day, and he was of opinion that it would be much cheaper to hire reapers by the day than to pay such wages. The other speakers agreed with Mr. Scott that the prices which had been paid for cutting by the piece were too high, but several of them thought that where corn was let at a reasonable price, it was of advantage to get it cut in that way.

THE ROYAL AGRICULTURAL BENEVOLENT INSTITUTION.

At a meeting of the Council, at the office, 55, Charing Cross, on Tuesday, November 5th, there were present: Mr. C. S. Cantrell (Bucks) in the chair, Mr. F. Battcock (Hunts), Mr. J. Collins (London), Mr. A. Garrett (London), Mr. Donald Nicoll (London), Mr. T. Scott (London), Mr. C. Shaw (London); Mr. W. Vivian (London), and the secretary, Mr. C. Shaw, jun.

Attention was called to the following extract from a report of the Bedfordshire Agricultural Society's dinner, as originally given in *The Bedford Times*, and subsequently in *The Mark Lane Express*:

Mr. JOHN ROGERS, the new secretary of the Bedfordshire Society, in the after-part of the evening, said there was a toast which on these occasions had been unaccountably forgotten, and which deserved to be brought forward, he meant The Agricultural Benevolent Institution. He thought the young people ought to be reminded that there is such an institution in existence, although the fact was that it is increasing every year and rendering benefits to many candidates, so that it was deserving of support. In each district there were, no doubt, gentlemen who would volunteer to receive subscriptions.

Mr. GEORGE STREET, the chairman, said: With regard to the Royal Agricultural Benevolent Institution, referred to by Mr. Rogers, the Messrs. Howard had taken a very great interest in it, and had got a number of members to join, but the money when forwarded to the secretary was not immediately acknowledged, and the voting-papers were not always sent down. That was his own personal experience. During the last year he had sent to the Messrs. Howard five guineas, to qualify him to become a life-member of the Society, but although that amount was sent up immediately the receipt was not returned. If that was the only instance he should have passed it over, but he wrote to the secretary stating that as he had sent the money with a special object he requested that it should be returned, and the result was that he had got the money back. This was a very important matter, and as the Society was one which they all desired to support he thought the secretary ought to do his duty. He deeply regretted that the thing was not properly managed.

Mr. R. B. STAFFORD said that he endorsed a good deal of what Mr. G. Street had said. His late father had been deeply interested in a case from the neighbourhood of St. Neots, and several gentlemen there informed him that they had nowhere to pay their money. Under these circumstances he (the speaker) received their subscriptions and got them their voting-papers, and this showed that there ought to be some one appointed in each district to receive subscriptions. He mentioned this in order to bear out what Mr. George Street had said, that there was great neglect in the affairs of the Society. If the matter were taken up properly there was not a farmer who would not subscribe. He thought they should one and all do all they could to obtain subscriptions.

The CHAIRMAN thought that the feeling of the agriculturists generally was either that the Society should do its duty or cease to exist. The fault lay entirely with the general office, and unless they did their duty they could not expect the work to prosper.

Mr. F. STREET urged the desirability of having the Society made better known to the agriculturists.

Mr. ROGERS said that as the Society was conducted on the voluntary principle no secretaries were appointed in the various districts unless persons offered themselves voluntarily through the interest they felt in the work.

Mr. SCOTT moved that a Committee of three members of the Council be appointed to investigate the matter, and report thereon; but his motion was not seconded.

The SECRETARY then read a letter which he proposed to send to the papers, and after some alterations had been made, this course was adopted; Mr. Scott, however, dissenting.

The following is a copy of the letter which has been forwarded to us for insertion :

SIR,—I would not reply to the strictures contained in a notice of a meeting of the Bedfordshire Agricultural Society reported in your paper of the 21st ult., until I had an opportunity of taking the opinion of the Council of the Royal Agricultural Benevolent Institution upon the propriety of entering into an explanatory justification. In answer to Mr. Street's observations, I am in a position to state that the money-donation referred to by that gentleman was received at this office on the 30th May, and the acknowledgment forwarded to Messrs. Howard, the Society's Local Secretaries, on the 1st June. This would have been done earlier, but under that date no fewer than 300 payments are entered in the day-book, which, with other matters of pressing importance, rendered it quite impossible that all receipts should have been despatched by return of post. Mr. Street also complains that his voting-paper did not duly come to hand, and upon his request, and as a necessary consequence of an omission which it is by no means certain was mine, his donation was returned to him; and here I would beg to remark that, with over 10,000 voting-papers to send out, it is possible that an omission should sometimes occur, as is alleged in this particular instance.

I have the honour to be, sir, your obedient servant,
C. BOUSFIELD SHAW.

On the motion of Mr. DONALD NICOLL, the following resolution was also carried against Mr. Scott, the only dissident: "The Council having had read to them the report published in *The Mark Lane Express* of the 21st ult. affecting the conduct of their Secretary, and having fully investigated the circumstances, desire to record upon the minutes of the Society their opinion that the charge therein made is incorrect and unjustifiable."

Mr. SCOTT asked why Mr. Street's case had not been reported to the Council in the first instance? And, further, as to where the money had been obtained to repay Mr. Street the £5 5s. which had been paid in to the funds of the Society?

The SECRETARY, in explanation, stated that he had paid back the amount from his own pocket, and then deducted this from the aggregate amount of subsequent subscriptions.

It will be seen that at the instance of Mr. Donald Nicoll the Council of the Royal Agricultural Benevolent Institution, have passed a resolution in which they desire to express their opinion that the report published in *The Mark Lane Express* on the business of the Institution is "incorrect and unjustifiable." This report, as we stated when we gave it, was taken from *The Bedford Times*, and we have necessarily to pass the point on. Does *The Bedford Times* permit the Council of the Royal Agricultural Benevolent Institution to record its opinion that the reports of *The Bedford Times* are incorrect and unjustifiable? But, further still, as Messrs. George Street and R. B. Stafford have never, we believe, denied the correctness of the reports as regards the speeches we gave from our Bedford contemporary, are these gentlemen prepared to submit to the charge made by Messrs. Nicoll and Co. that what they said on the business of the Benevolent Institution was incorrect and unjustifiable? Instead of meeting the Bedfordshire farmers with a clumsy impertinence, which of course can only imperil the subscription list, Mr. Street was the rather deserving of a vote of thanks for showing the Council how the business of the office is conducted, however admirable and perfect the system may be. Still, the thing may require a little further looking into; for when we see how the hapless Mr. Scott was over-

whelmed, and by whom the Press and the agriculturists are reprimanded for presuming to say anything about their own Institution, one is irresistibly reminded of another famous manifesto, which was issued as a caution to the country by the Three Tailors of Tooley-street,—*Mark Lane Express*.

SHORTHORN HISTORY.

The Reverend John Storer, of Hellidon, is engaged in writing a History of the Shorthorn—a breed of cattle certainly neither unhonoured nor unsung, considering that we have already Mr. Carr's History of Killerby, Studley, and Warlaby, as published originally in this Paper, and, *per contra*, Mr. Bell's History of Improved Shorthorns and the Kirklevington herd; while the late Mr. Dixon told from time to time the history of every Shorthorn herd in England, also through the columns of *The Mark Lane Express*. However, the Shorthorn scandals now flying about will furnish some further material, and enable Mr. Storer to point a moral to the present day.

BATH AND WEST OF ENGLAND SOCIETY, AND SOUTHERN COUNTIES ASSOCIATION.

The Council meeting was held at the White Lion Hotel, Bristol, on Tuesday, Mr. R. T. Bremridge, V.P., in the chair. There were also present, Messrs. Allen, M.P., Boscawen, Best, Best (Captain), C. Bush, R. H. Bush, A. F. Milton Druce, F. W. Dymond, C. Edwards, M. Farrant, H. Fookes, J. Gray, H. P. Jones, J. E. Knollys, J. F. Lennard, H. A. F. Luttrell, H. G. Moysey, R. Neville, T. Phillpotts, J. Quartly, J. C. Moore Stevens, R. Trood, H. Williams, H. Spackman (Superintendent), and J. Goodwin, Secretary and Editor.

The PLYMOUTH MEETING was fixed to commence on Whit-Monday, the 2nd of June, 1873. The prize sheets for stock and poultry, and the regulations for implements, &c., were brought up and confirmed, and ordered to be printed and circulated through the medium of the Society's *Journal*, which will very shortly be in the hands of members. The Devon County Agricultural Association in the year 1873 will hold no meeting.

THE JOURNAL COMMITTEE was enlarged by the addition of Mr. Moysey and Mr. Knollys to its members.

Mr. Henry Badcock, of Taunton, the Society's Treasurer, was appointed an *ex officio* member of the Council.

Mr. Charles Dyke Ackland, of Sprydoncote, Exeter, and Mr. W. R. Crabbe, of Heavitree, were elected members of the Council, in the place of Mr. Hussey, deceased, and Mr. Froude, who has retired; and Mr. C. A. W. Troyte, of Huntsham, Court, Bampton, was appointed a Steward of Arrangements.

A proposal by the Plymouth Horse and Dog Show Committee to hold an exhibition in combination with the Society's meeting in June next was declined, as contrary to the practice of the Society.

NEW MEMBERS.—The following new members were elected: Colonel Loyd Lindsay, M.P., Lockinge Park; Mr. T. Dyke, Ashton Lodge, Bristol; Mr. J. W. Shettle, Bradford Farm, Wimborne; the Rev. R. B. Kennard, Marshull Rectory, Blandford; Mr. W. Smith, Sunden House, Clifton; Mr. F. C. Simpson, Derwent Lodge, Dartmouth.

THE EXODUS.—Three hundred labourers, the first party of the great peasant exodus just organising, have arrived at Plymouth on their way to Queensland.—*Standard*.

LANDMARK.—Mr. H. Jewison has sold this well-known prize horse to Colonel Castillango, for the King of Italy. Early in the season it was certainly announced that Landmark had been sold to Mr. Hall, of the Holderness, for 500 gs.

SMITHFIELD CLUB.

At a meeting of the Council, held at the Agricultural Hall, Wednesday, November 6th, 1872—Present: Lord Tredegar, President, in the Chair; the Marquis of Exeter, Vice-President; Messrs. J. D. Allen, T. C. Booth, Thomas Duckham, Walter Farthing, William Fookes, John Giblett, Thomas Horley, Richard Hornsby, Robert Leeds, E. W. Moore, R. J. Newton, William Sanday, T. L. Senior, William Torr, H. Trethewy, J. S. Turner, Henry Webb, Jacob Wilson, and Brandreth Gibbs, Hon. Secretary.

The minutes of the last Council Meeting were read and confirmed.

The Hon. Secretary was authorized to take any steps that may be necessary relative to holding the coming Show.

A Committee was appointed to make the usual regulations as to disinfecting cattle conveyances, &c.

A communication from Professor Simonds having been read, stating that his election as principal of the Royal Veterinary College would prevent his continuing to be the Veterinary Inspector of the Club, it was resolved that a vote of thanks be passed to Professor Simonds for the services he has rendered the Club, and that he be elected Honorary Veterinary Inspector.

It was resolved that Professor Browne be elected the Veterinary Inspector to the Club; that the fee be 40 guineas, on the understanding that either he or a duly-qualified veterinary surgeon appointed by him be in attendance day and night, from Thursday morning, December 5th, up to Saturday night, December 7th, to inspect every animal previous to its admission into the Show, and that the animals be duly examined during the other days they remain in the yard; and that an assistant or assistants be in attendance both by night and day, to assist the Veterinary Inspector from December 5th, and to remain at the Hall day and night, until the close of the Show.

The judges were appointed for live stock, and also for the Earl of Powis's prize for the instruments for slaughtering animals by dividing the spinal cord.

The house-list of eight names, to be recommended to the General Meeting for election in place of the eight members of Council who retire by rotation, was prepared in accordance with the bye-laws.

A notice of motion to be brought before the General Meeting to alter the bye-laws in reference to the preparation of the house-list was considered, and the Council resolved to report their recommendation that the proposed alteration should not be made.

It was resolved that the following rule must be adhered to: "That all animals (cattle, sheep, or pigs) coming by railway to the Smithfield Club's Show be sent in horse-boxes or in private conveyances.

Letters were laid before the meeting, and the replies to be given were determined upon.

Authority was given for the Champion and other Cups to be ordered on the usual conditions.

The following were duly elected members of the Club:

G. E. Wythes, Little Copt Hall, Epping.
Joseph Stanford, Haxted Mills, Edenbridge.
William Hew Dunn, Standen Manor, Hungerford.
Charles Le Neve, Sustead, Hanworth, Norwich.
William How, Tottington, Watton, Norfolk.
Sir J. R. Bailey, Bart., Glauusk Park, Crickhowell.
R. E. Duckering, Northorpe, Kirton Lindsay, Lincoln.
W. T. Cox, Spondon Hall, Derby.
R. H. Chapman, Upton, Nunneaton.
James Bruce, Burnside, Fochabers.
Penstone Aaron Pike, Mitten, Tewkesbury.
John A. Smith, Bradford Peverell, Dorchester.
James Killick, Broom Farm, West Dean, Chichester.
H. D. Adamson, Balquher, near Alford, Aberdeen.

The thanks of the meeting were voted to the President for his conduct in the Chair.

THE HIGHLAND AND AGRICULTURAL SOCIETY OF SCOTLAND.

The first monthly meeting of the directors for the season was held on Wednesday, November 6, at 3, George IV. Bridge, Edinburgh. Present: Sir A. Hope, Bart.; Sir George H. Scott Douglas, Bart.; Dr. Anderson; Mr. Leslie Melville Cartwright; Mr. Curror; Mr. Harvey, Wittingham Mains; Mr. Hog, Newliston; Mr. Hunter, Thurston; Mr. Irvine, Drum; Mr. Kenneth Mackenzie, C.A.; Mr. Mitchell, Alloa; Mr. Munro, Fairington; Mr. Newton, Linbank; Captain Tod, Howden; Mr. Thomas Coutts Trotter, Edinburgh; Mr. Walker, Bowland; Mr. Wightman Courance; Professor Wilson; and Mr. Young, Cleish. Mr. Trotter in the chair.

The following transferences of premiums awarded at the Perth show in July, 1871, were reported. Two-year-old Shorthorn heifers: The heifer Forlorn Hope, belonging to Lord Kinnaird, which carried off the third prize, having failed to produce a calf within nine months after the show, in terms of the general regulations, the premium has been transferred to Mr. Baillie, Dochfour, for his commended heifer Woodbine. Two-year-old polled Angus or Aberdeen heifers: The heifer Rosa Bonheur, belonging to Mr. Brown, Westertown, Fochabers, which gained the third prize, not having produced a calf, the premium has been transferred to Sir George Macpherson Grant, for his heifer Fashion, which stood fourth. Two-year-old Galloway heifers: The heifers Lalla Rookh, the property of Mr. Biggar, Chapelfon, and Marion, belonging to Mr. Cunningham, Tarbreoch, which won the first and second prizes, having failed to produce calves, the premiums have

been transferred to Mr. Cunningham, Tarbreoch, for his heifer Nelly, next in order, and to the Duke of Buccleuch for his heifer Juventa. Mares in foal: The mares belonging to Mr. Drew, Merryton, which were second and fourth, and to Mr. Buchanan, Whitehouse, which was third, having failed to produce foals, the premiums have been forfeited.

The following report by Mr. Munro, Fairington, was read: I have now to send you the result of the trial of the reapers recommended by the judges at the Kelso show, which was carried out by the local committee, on the farm of Spylaw on Tuesday last. The field operated on bore a fair crop of barley, partly laid, but being all one way and little undergrowth of grass, there was nothing to prevent the machines making good work, cutting in one direction. The only machine of the three that we considered worthy of getting a medal was that of Messrs. Haughton and Thompson, Carlisle; it made good work, seemed well constructed; and the method of raising or lowering the points of the finger-bar very simple and efficient. The following is the draught indicated by the dynamometer and the width cut by the different machines:

	Draught in cwt.s.	Width Cut. Feet. Inches.
Haughton and Thompson.....	1½	4 4
Lawson and Son	1½	3 4
Bickerton and Son.....	2¼	4 8

The Board agreed to award the silver medal to Messrs. Haughton and Thompson for their reaper, as recommended by the committee appointed to conduct the trial.

It was remitted to the committee on general shows to fix the premiums and adjust the regulations for the show to be held at Stirling in 1873.

Requisitions addressed to the directors to hold the general show at Inverness in 1874 for the district comprising the counties of Inverness, Nairn, Elgin, Orkney, Caithness, Sutherland, Ross, and Cromarty were submitted.

The directors resolved to recommend the next general meeting to comply with the prayer of the requisitions, and it was remitted to the general show committee to prepare the classes of stock for which premiums should be offered.

A correspondence between Dr. Alexander Williams and the Secretary on cattle disease was reported, and various Orders in Council sent by the Privy Council were laid on the table.

The subject of the curriculum in connection with the granting of veterinary certificates having been remitted by the last general meeting of the Society to the directors, and by them referred to the committee in charge of the veterinary department, that committee held a meeting on the 17th July, when it was resolved that the examination of students who commence their professional studies at a veterinary college for the first time in or after November, 1872, should be conducted as follows: 1. There shall be two examinations yearly—one in April, the other in July. 2. Candidates will be allowed to present themselves for examination in anatomy, chemistry, and materia medica nine months after the commencement of their professional studies at a veterinary college recognised by Government. 3. Candidates who have passed the first examination, and who have attended at least two winter sessions

and one summer session at a veterinary college shall be allowed to come up for the second or final examination, which shall embrace histology, physiology, botany, cattle pathology, horse pathology, and clinical medicine. 4. Candidates in entering their names for the final examinations must produce certificates that they have attended a course of at least three sessions at a veterinary college recognised by Government, and also produce certificates from the professor of each subject required by the curriculum. 5. Candidates failing to pass any of the examinations shall be required to attend a veterinary college one session before being allowed to present themselves for re-examination. The committee further reported that as botany at present is not compulsory for certificate, special prizes should be awarded to those candidates who pass the most satisfactory examination in that branch in 1873.

The Board approved of the suggestions by the committee.

A list of the reports received in competition for premiums offered in 1872 was submitted, and it was remitted to the committee to read and report on the merits of the different papers, as well as to revise the list for next year.

Forfeiture of Premiums.—The mares belonging to Mr. Sim, Ardullie; Mr. Mackessack, Earnside; and Mr. Hendrie, Castle Heather, which carried the prizes at the local competition held at Inverness in August, 1871, were declared forfeited—none of the animals having produced foals in accordance with the regulations.

The returns of the various competitions held in 1872, and applications for 1873, were referred to the committee on local shows for consideration and report.

AYRSHIRE AGRICULTURAL ASSOCIATION.

THE GREAT CHEESE FAIR AND DAIRY-PRODUCE SHOW.

The eighteenth annual exhibition of dairy produce held under the auspices of the Ayrshire Agricultural Association took place in the Corn Exchange, Kilmarnock. Conjoined with the exhibition was a cheese fair, at which 355 tons of cheese were exposed for sale. The show was instituted for the purpose of promoting the manufacture of cheese and butter of the best and most approved description, so far as public taste and standard of excellence are concerned, these being, in regard to cheese, purity of flavour, mellowness, and richness in taste, closeness of texture without toughness, and power to keep. Twenty years ago nothing but what is known as Dunlop cheese was manufactured in Ayrshire, but the demand for cheese made on the Cheddar principle having increased, and that article commanding a better produce in the market than the Dunlop, it became the interest of farmers in the west and south-west, which is *par excellence* the dairy district of Scotland, to adopt the Cheddar system. A spirit of enterprise was shown by the farmers of Ayrshire, Galloway, and Kirkcudbright, not generally attributable to agriculturists. Dairy-men and dairymaids from Somersetshire and Wilts were engaged to instruct the farmers of the west, with their wives and daughters, in the art of Cheddar cheese-making, and so far have they profited by their instructions that now the dairy produce of Scotland can compare with that from the most favoured districts in England. As an illustration of the advantage of this reform in the system of cheese-making in Scotland, it may be stated that a dairy farmer in Ayrshire announced that since he had adopted the Cheddar principle in his dairy six years ago, he had realised £1,000 more than he would have done under the old Dunlop method. Of course the increased prosperity of the tenants will naturally be shared in by the landlords, so that the introduction of the Cheddar system into Scotland may be said to have been a national benefit. The encouragement to the business afforded by the Ayrshire Agricultural Association has contributed in no small degree to this desirable result; and the shows where the produce of the farms are submitted to the crucial test of public opinion have year by year been growing in dimensions and importance. In the different classes of cheese there were no fewer than 464 entries yesterday, which, taken together, would weigh about 380 tons, of the value of nearly £27,000. The exhibits would represent at the least 5,000 tons of cheese in the various dairies of the competing farmers, and

the value of that enormous amount of stuff would be about £350,000. The interest in such an important exhibition extends beyond the range to which the competition is confined, and factors from all parts of Scotland and England attend for the purpose of making purchases. Highly successful as the show and fair are, it is alleged that they would be more so were they held a month or so earlier in the season. Dealers have by the end of October filled up their stocks for the most part, and if the show and fair took place, say in the beginning of September, better and quicker sales might be effected, the more especially as factors are gradually abandoning the speculative system of purchasing the whole produce of a farm, or the "kame," before the cheese is actually made. The suggestion made by the English judges and some of the principal dealers, that a special cheese exchange should be erected in Kilmarnock, is also worthy of consideration. The diversion of a large sum of money as premiums for first-class "ton lots" of cheese from one dairy has also been urged; and for this reason that it is the interest of the cheese makers, cheese factors, and the public at large that the superiority of make should be general, and not confined to two, four, or six cheeses out of a "kame." The district from which contributions were made to the show of yesterday embraced Ayrshire, Galloway, Kirkcudbright, Dumfries, Renfrew, and the Upper Ward of Lanarkshire, and the various exhibits were arranged tastefully, amid a profuse array of ferns, palms, and ornamental plants, in the hall of the corn exchange and the butter market. The weather was, unfortunately, wet and disagreeable, but the exhibition was visited by several thousands of interested farmers and dairymaids and a fair number of the general public. Speaking generally, the quality of the cheese was good, much of it was first-class, and very little of it of an inferior description. As the judges remarked, the progress towards perfection in the art of cheesemaking was marked; and any inferiority in some of the classes might be accounted for by the wet untoward season. There were no fewer than 114 entries for the premiums offered for sweet-milk cheese made according to any method, and although the judges had seen in this section finer cheese in previous years, the quality of the prize lots was undoubted. Curiously enough, the first three prizes were carried off by the same gentleman—Mr. John Currie, Kirkoch, Kirkcudbrightshire—although the three lots were made on three different farms under as many different man-

gers. It may be here stated that the Stewartry farmers have once more taken all the leading prizes—Ayrshire having only come to the front last year for the first time—and that the most successful exhibitor is Mr. John Currie, who took the first prize in the sweepstakes open to all comers. The cheese in this class was superb—excellent, and could have met fairly anything which could be produced in Cheshire, Somersetshire, or Wilts. The flavour and texture of the prize lots were all that could be desired. The quality of the exhibitions in Class II.—sweet-milk cheese made according to the Cheddar method—was very good, although not superior to that of former years. This was, as expected by the exhibitors themselves, on account of the damp summer and autumn. Of uncoloured cheese, made according to any method, there were 53 entries, and these were, on the whole, fair; and although the quality was somewhat mixed, there were not so many inferior lots as in previous years. The first prize lot, shown by Mr. James Hannay, was very superior for its mellow flavour and firmness. There was a decided improvement, compared with former efforts, in the uncoloured loaf cheeses, and the honours here, as has always been the case, went to the south country

makers. The “any method” class, open to Ayrshire only, is not equal to former years, and even pairs were irregular, and barring the prize lots there was difficulty in getting an extra fine cheese. It may here be remarked that in all classes of cheese the tastes of the Scotch judges, and therefore of the Scotch public, are assimilating to the English, who like a more mealy cheese than was thought desirable north of the Tweed for years. Regarding the pure Dunlop cheese tabled, it may be stated that the flavour was fine, although generally a little high. There was a decided improvement over former years’ exhibits in the imitation Wiltshire and Stilton cheese, and not a single inferior cheese could be picked out of this class. A marked excellence was the regularity of size and shape. Among the thirty-eight “ton lots” there were many splendid samples. The excellence was indeed almost general. With few exceptions the samples of fresh, cured, and powdered butter were superior in quality in the open classes; while those confined to the county of Ayr were scarcely so good—some of the lots of cured butter being too salt, while the powdered seemed too fresh.

AFTER-DINNER TABLE TALK.

At Blofield, Norfolk, Mr. C. S. READ, M.P., said there are two classes of legislation that are running riot, and that ought to be guarded against. The first of these is that class of legislation which interferes most materially with the rights, liberties, and independence of the subject. We have, for instance, in the constituencies of this great country a few timid and corrupt voters, and in consequence of those timid and corrupt voters the whole of the constituencies of this great kingdom have been deprived of what they regarded as their birthright—namely, the right of open voting. Then there may be one drunken man in a parish, and in order to keep him straight there is imposed by the Licensing Bill upon the liberties and enjoyment of ninety-nine sober men what they consider to be a vexatious grievance. Because some people make an improper use of fire-arms, Mr. Lowe, a year or two ago, taxed every farmer who did not happen to be his own crow-boy, and because there are some people who make wholesale slaughter of little birds, we have this year passed a bill inflicting pains and penalties for a most trifling description of offence. If we go on for the next ten years manufacturing misdemeanours in the way we have done since I have been in Parliament, I am sure that one-half of the community will be employed in taking the other half into custody. But there is another class of legislation which is getting popular, and that is a class of legislation which endeavours to take from the parents of children, from relatives, and from individuals the duties which they themselves ought to discharge. I refer especially to the Education Act, to the Public Health Act, passed this year, and to the way in which our poor-law is administered in this country. In my own district, to my great astonishment, this quarter, notwithstanding all the employment and the high wages that prevail, I found that rates that usually were fivepence in the pound in one hundred, and sixpence in the pound in another, are now sevenpence in the pound in the first, and ninepence in the pound in the second. This all results from the way in which the officials in London insist upon the administration of the poor-law by the Guardians. I will give an illustration of this. In our Union we were ordered to build vagrant wards at the workhouse. They have been built, and were made, as we thought, sweet and clean and nice, when down came another order that we were to warm the wards also! Even our chairman, who is a Cabinet Minister, said that he could not stand this, so we shall not warm the wards until we are made to do so. There are tyrannies of all sorts. In olden times there was the tyranny of the Crown, then came the tyranny of the nobles, and in these latter days we have the tyranny of “King Mob;” but I believe that we have a greater tyranny in store for us, and that is the tyranny of Government officials. I believe that this country is now in reality ruled to a degree that very few people dream of by Government officials. An Act of Parliament is never passed without making some fresh power above—some great board with its inspectors, commissioners,

and doctors—and now we are going to be invaded by a whole army of sanitary engineers. If we do not take care the whole of the independence of the country will pass into the hands of some large central board in London, so that we shall be worse off, as far as regards our local government, than ever were the people of France. I will just refer for a moment to the Wild Birds’ Bill. When it was first introduced into Parliament it was a harmless and, perhaps, a proper bill. It sought to protect the wildfowl during the breeding season, and, as they are an article of food, I think it is just as well they should have a certain amount of protection. But you would hardly believe that one morning, about two o’clock, when there were only about forty members in the House, including the Speaker, a resolution was passed to the effect that this protection should apply to every bird that flies, and that consequently, from the 15th of March to the 1st of August, unless the Court of Quarter Sessions willed it otherwise, no bird of any sort or description should be killed. We could not stand that. Although there are a lot of philosophic, humane gentlemen in the House of Commons who would send everybody to prison who do not agree with them, yet we managed to get this bill into committee, where we improved it. But even now there are scheduled in the bill no fewer than 79 birds called by all sorts of funny names that I never heard before, so that it comes to this—that if a school-boy happens to throw a stone at a hedge sparrow and kills it, or traps a cock robin, between the 15th of March and the 1st of August, he has a chance of being sent to prison. Now, if that is not legislating with a vengeance, and making the laws ridiculous, I do not know what is, and I can only say that I should be glad indeed if the House of Commons were shut for twelve months. That would do us a good deal of good, because, as we are a law-observing people, if you have laws of this description they will either become a dead letter on the statute book—and nothing is worse than having a law that nobody thinks of obeying—or they will be administered in a manner that will make them intolerable. You are aware that I have been a member of the Game-laws Committee. That is bad enough, but I have also been something worse, and that is a witness. When a man goes for the first time to have his tooth drawn, he sits down in the dentist’s chair with a great deal of courage, but when he goes a second time he “funks” it amazingly. Now, I have been in the witness box of the House of Commons a good many times, but, instead of liking it better, I “funk” it more and more every time. I have given evidence on the Game-laws that has been severely criticised both by my friends and my foes. I don’t suppose that all of you have read it, and, therefore, I will tell you my opinion about game. It is what it always has been, and what I hope it always will be. Nothing shall ever induce me to go in for a total abolition of the Game-laws. If we pass a bill for the protection of the cock-robin it would be the height of absurdity to take protection from pheasants and

partridges—that winged game which affords such a quantity of sport, and is at the same time good food, and does comparatively little or no injury. But what I desire, as a farmer, is that ground game should be kept in moderation. One more subject, and only one. Probably some of you may remember that last year, when I mooted the question of the Contagious Diseases (Animals) Act in the House of Commons, I said it was time we should have a committee to inquire into its action, but the Government were kind enough to allow the House to be counted out; why they did so I don't know, but perhaps they did not like the subject, or, possibly, because they might have had an adverse division. But I am happy to say that Mr. Forster now sees the necessity of having an inquiry into the subject, and has promised me a committee next year. But I want to know whether you practical farmers do not think that the Contagious Diseases (Animals) Act has been a perfect failure in this district. Colonel Black yesterday reported to the Quarter Sessions that the Act was a total failure—that it imposed an immense amount of labour upon the police without doing any good that he was aware of. Mr. T. Beever, the chairman of the Committee, fully endorsed that view. The operations of the Act, as far as regards pleuro-pneumonia and foot-and-mouth disease, certainly inflict upon owners of stock an immense amount of injury, and to all appearances to do no good whatever. We have now in this county an amount of foot-and-mouth disease such as we never had before. I find that during the last twelve months we have had in this county no fewer than 1,061 cases of pleuro-pneumonia, of which 734 have been reported during the last three months. We have also had during the last twelve months no fewer than 191,000 cases of foot-and-mouth disease, 131,000 of which occurred during the past three months. Therefore we seem to be getting from bad to worse. Let us hope the tide is turning, not from any preventive action of this Act of Parliament, but from natural causes. Only think of 191,000 cases of foot-and-mouth disease! What a loss that is to the country! Take it at only 10s. a head—for of course there are a great number of sheep—and it gives a total loss of £95,000 in the first instance to owners of stock, and in the second place, to the consumers. Yet some people say that the Act is no sort of hardship or oppression to the owners of stock! Some of you, however, must have found that it is so. How curious and perverse is the Act with regard to pleuro-pneumonia! You may take a bullock in the last stage of disease and walk him to the nearest slaughter-house; but bullocks that have been herded with the unfortunate animal, that are perishing in a marsh, and that may be perfectly sound, cannot according to the strict letter of the law be moved. Then take the case of foot-and-mouth disease. Mr. Veterinary-Surgeon Smith, when he sees going upon the hill two or three cattle affected with it, immediately stops and removes them, but he cannot detain the remainder. Is there any Act so stupid as this? It really disseminates the disease, and does nothing that I can see towards preventing it, except that it imposes certain fines and penalties upon a few unfortunate owners of stock. With a law like this those who have to administer it really do not know what to do. Now and then a man is brought up and convicted in a very heavy penalty—and for what? We find that one gentleman who had not given notice that his cattle were suffering from foot-and-mouth disease was fined £51, that another for not giving notice respecting two diseased bullocks was fined £15, that another for not returning seventy-eight sheep that were diseased was fined £26, and that another who neglected to give notice of six affected cattle was fined £30. A man in North Norfolk who had a large flock that were starving moved them for some distance along the road, as he was almost bound to do, and was fined £40. It is all very well for gentlemen at the Quarter Sessions—as a noble lord did yesterday—to say that if you do not enforce the Act rigorously, you cannot expect it to do any good. But the cases I have quoted show excessive severity. It would be much better to inflict a nominal fine for an offence which, after all, if it is an offence, is so slight a one that it might almost be passed over, because when notice is given to the police, the policeman tells the inspector, and there it ends, for no further action is taken. Instead of that, in my opinion, the man who has disease upon his farm ought to give notice of it to his neighbours, who are the people most interested. If there had been a clause passed, as I suggested, providing that a man should tell his neighbours, and not

the policeman or inspector, it would have done a great deal of good. I will not go into the question of the outbreak of the cattle-plague, which has taken place in Yorkshire, beyond observing that it seems strange to me, after the Government had, as it were, perfected all their arrangements at the ports for the landing of foreign stock, there should be no means of getting rid of diseased carcasses. It is rather curious, but a fortnight before this outbreak of cattle-plague, Mr. Forster, in answer to me in the House of Commons, said that he would issue an order that no carcasses whatever should be thrown into the sea within three miles of the shore, or any tidal river or stream. And, yet, what has occurred? The very moment a lot of infected cattle arrive at Hull, Newcastle, or Leith, they are thrown into the sea, and washed ashore in all parts of the country. Happily there has been no outbreak of cattle-plague in Norfolk; but we have not to thank the authorities for it, for all along the north coast of Norfolk the carcasses of stricken animals have been thrown up by the sea and washed ashore. I therefore think that you will agree with me that the time has arrived when we want at least an inquiry into the action of this Act of Parliament, and also as to whether the whole of our legislation, as far as regards our cattle, cannot be improved and modified.

Sir R. J. BUXTON, M.P., should like to see every farm provided with a sufficient number of cottages in which the labourers could be housed. He did not mean to suggest that every landlord could afford to do this all at once, but this reform could be carried out gradually. Every man employed on a farm ought to be lodged on that farm, for, as their common sense must tell them, it was a great waste of power to compel a man to tramp along a road three or four miles to and from his work: therefore, he repeated that it was the duty of the landlord to provide accommodation upon his farm for every labourer employed there.

Sir E. H. K. LACON, M.P., said a measure of law-reform would be introduced. He held that one important reform urgently needed was the simplification of the law relating to the transfer of land, so as to make it much less expensive than it was. At present a man who bought a small cottage had to pay the lawyers just as much as another who bought £10,000 worth of property. This was not as it should be. Property ought to be transferred from one to another at the smallest possible cost.

Mr. E. GILBERT was quite sure that there was not a single employer present who would object at any time to put out any kind of work that could possibly be put out by piece; nor would he object to pay for the work thus done by the labourer, whether he earned 12s., 15s., or £1 a week. For himself, as a large employer, he would just as soon pay a man a pound a week if a man did the work required of him as he would 15s. a week.

Mr. GILLETT advised them to put out as much work as possible by piece. Observing last year that a near neighbour got up his stacks so much quicker than he did, and observing that he was doing the same this year, he inquired the reason. He found that his neighbour's men were paid for carting by the acre and not by the day, and he adopted the same plan with the rest of the work he had to do. He was certain that the consequence was that ten men did more than fifteen under the old plan, and by it the men earned 4s. 6d. a day. He gave them 2s. 6d. an acre (five men), and the rakers and drivers he found himself. When he carted by the day he had a difficulty in getting the drivers to the stack, but, when carting by the piece, they were always there and carried half as big a load again, so that there was not so much driving. The stacks were up half as quick again.

Mr. NEVE had been very much surprised to see such little harm done by ground-game in the district. It must be a very great satisfaction to the tenants on that estate that they were not overrun with such vermin as rabbits. He always thought that rabbits were a disgrace to any good estate like that, for no farmer could keep his fences clean.

At Wareham, Mr. GERARD STURT, M.P., the chairman, said: I think it is dangerous that politics should be allowed at these meetings, for fear of agricultural associations being turned into political debating clubs. But what I like is this, that the rule should exist that at these meetings politics should not be permitted; but then I like to break the rule myself, and talk just as much as I choose. There is one question which is not become law, and in which I took a great interest,

one which seemed to have stirred up a certain number of electors of the county of Dorset. It is the question of local taxation. This is a very serious subject, one which the Government have promised to take up. Until they do so, and tell us what they are going to do, it would be wasting time and it is needless on my part to enlarge on that subject. We passed the Ballot Bill. Well, although for myself, as far as I am concerned, it has passed both the House of Commons and the House of Lords, my opinion is not changed—I think it an un-English, sneaking thing; and, as long as I am an Englishman, I shall still maintain my humble opinion. I must talk a little about the work that goes on upstairs. I have been on the committee this year—I never missed, I think, but one sitting—on a subject that is also interesting to some of you. It affects the interests of landlords, but I am never the least afraid, and always speak out my mind on any subject, for I think that is much the best thing—there is nothing like straightforward speaking out. I have been on a committee on the Game-laws, and I have no hesitation in saying that the grievances of the Game-laws come mostly from Scotland. I have no hesitation in saying that many of the witnesses in that part of the kingdom who gave their evidence have a great deal to complain of. Whenever a set of gentlemen have a grievance I always try to place myself in their position. I fancied myself a tenant-farmer, and if I were one I should wish to have pride in my farm, and like very much that any gentleman driving by it should say, "Halloa, here's Mr. Gerard Sturt's farm; he knows what he is about; what capital crops he has!" I have come to this conclusion and determination, that it is impossible for a man to farm, and do credit to his farm, where game is over-preserved; and I will say that if it were not for a half-dozen potentates, as I may call them, in Scotland—I must not mention names—who over-preserve game, and do things of which they ought to be ashamed, I have no hesitation in saying we should have had no agitation whatever respecting the Game-laws. Now, so much for that committee; I dare not say any more about it. But there is one more point concerning the Game-laws on which I will say a word, and which the English tenant-farmer would like to see remedied. In ninety-nine cases out of a hundred the tenant-farmer would be pleased for his landlord to come and have a fair day's shooting; but he does not like being eaten up by ground game. And what is worse, and he does not like, and if I were a tenant-farmer I could not stand it, is this—that if a landlord wishes to live abroad anywhere, or suppose he happens to be in Short-street (I dare say you have all heard of that), and goes away, he lets his place and the shooting to a stranger. What would be my own feelings if I were a tenant-farmer, and saw Mr. This or my Lord That come down and preserved rabbits, shot them, and as in many cases sent them up to London to be sold? That would be an outrageous state of affairs, and one demanding the interference of Parliament. Now, there has been another thing said to me since I entered this town: "Take care what you say; be careful what you are about; take care what you say on the labour question." Now, I totally and entirely differ from those gentlemen. I am going to take care; but here I shall speak out my mind as your representative, and as a landlord. I say were I not to do so, if I shirked the question, blinked it, and passed it over, I should not be worthy of being your representative, and I should be ashamed to be a landlord. Now, I have a few words to say on the labour question; I have several words to say to the labourer, and I wish there were present the heads of the Milborne party. Milborne seems to be the most mischievous place in the county of Dorset, for wherever agitation goes on, it always springs from Milborne—it is almost as bad in that way as the Shaftesbury agricultural dinner is for politics. I should like to say some words to the labourer, a few words to the tenant-farmer, and a great many to the landlord. Now, as I said before, I always place myself in the position of the aggrieved party, or the party considering themselves aggrieved. I will commence with the labourer, and I ask myself ought we to be astonished, ought we to be angry, ought we in any way to be annoyed that the Dorset labourer should have come forward and ask for an increase of wages? I say decidedly not. Just look what happens. I don't know whether you keep your eyes open, but I do, and I see in the various villages in my neighbourhood, Witchampton, Long Crichele, Monkton, and Gussage, boys with penny papers going about. Well, you cannot suppose that those papers are not read; and people see full

well that the wages of the mechanic and artisan in different towns have been raised very considerably, that the wages of the mason, the carpenter, the blacksmith have been advanced, and both they and you know very well that even the wages of servants have been increased 40 per cent. They know the science now applied to agriculture. Your implements, are they not changed? Whoever heard twenty years ago of steam ploughs and a long list of other modern appliances which I have not at my fingers' ends, but which no doubt you have at yours. Since that time all these questions have sprung up, and it is known you require skilled labour. Therefore I am not at all surprised the labourers require their wages raised, and I will say more—that the condition of the peasantry throughout the South of England requires considerable amelioration. Well now, gentlemen, having said this in favour of the labourer—I wish very much the discontented heads of the labouring population were here present, for I am sure I am their friend, and I believe they would listen to me—I would also say there is such a thing in this world as "Give and take." And if the labourers think they are going to have it all their own way, of course they are very much mistaken. I should like to ask the labourer two or three questions, and if he takes in one of those penny papers and reads my speech, I hope he will answer them to himself. First of all I should like to ask him, "Who now is your real friend?" The farmer, the landlord, or the itinerant demagogue who comes down from London with no other purpose and no other aim but to foment quarrels and sow dissensions between employer and employed, and who, when he has done so, thinks he has done a very clever thing and goes away, leaving the poor man in the lurch! I wish to tell you an anecdote. It occurred this morning, so I have come warm from it. It concerns these itinerant demagogues and mischief-makers. There always have been in this country, and perhaps always will be, a certain set of men who seem to live with no other object than to set class against class, and be as mischievous as they possibly can be, merely for the sake of gaining what I call a most unenviable notoriety. After I came away from home this morning I called to a labouring man—I wish to be accurate, his name is Joe!—and I said to him, "Joe, have any of these men been down in this part of the country?" The man replied, "Yes, they have." Then I observed, "Well, just tell me all they said." He answered, "Well, sir, from what I can pick up they do abuse the tenant-farmers; they tell us they are our natural enemies, that they never paid us half they said they did, and that it was their great ambition and aim, to crush, ruin, and have us entirely under their thumb." Then I asked, "Did they say anything about the landlords?" He replied, "Oh yes; they told us the landlords were not much better, because they do back up the farmers." This is a correct statement of all that took place. "Did they say any more?" I asked. "Yes," he said, "a little more." "What was it?" I inquired. "They abused the parish doctor and the club doctor, for they said we were deceived and taken in by them; that when an old man sent for them, the first time he did not come, the second time he did not come, and the third time he did come and found him dead, but did not care whether he had gone up or down. As for the young man, if one sent for the doctor he gave 'em a hap'orth a salt in a pint of water, and charged half-a-crown for it." I don't believe Joe told me a word of untruth; I believe him. You can go and see him yourselves if you like. I asked him another question, which is very important—"Did the labourers believe it?" and he replied "Yes; I think they believed every word said to them." This is a serious matter. You are educated; they are not. I say the seeds of dissension and mischief sown by these itinerant demagogues cannot be told by me or any one in this room. Why if I went about and did one-half the mischief I certainly should not sleep for a fortnight. Now I have a little more to say to the labourer which he must bear in mind, and to ask him another question. I should like to ask whether it is not true that the farmers of this country as a rule have been paying you during winter for wet days as well as fine? I would ask him—Is it not equally true that the tenant-farmers as a rule throughout this country employ old men as well as young men? I would ask him—Is it not also a fact that the farmers of this country very often pay men aged 67 or 68 the same wages as men of 24 or 25, merely out of charity? This labour question must be looked at on all sides: it requires a certain amount of tact and conciliation; and I believe that if

landlords, farmers, and labourers would only do as I tell them to-night the question would be settled upon a satisfactory and durable basis. Having said so much for the labourer and against the labourer, I come to the tenant-farmer. Now, I am not going to presume to dictate to the farmers of this county what they are to give their labourers, whether 11s., 12s., or 13s., or anything else per week; but I say it is the bounden duty of farmers to give a fair week's wages for a fair week's work. I say that it is also the bounden duty of the farmers of this county—and I hope for goodness sake they will listen to this my advice!—to do away once and for ever with those perquisites, whatever their shape, and to give the labouring men so much money every Saturday, and let it be said to him, 'There's your wages and your money.' While you do otherwise, I don't care if you give 8s. in money and 12s. in perquisites, you will never get any credit for the 12s. in perquisites; and the men will go away and tell everybody, and I shall hear about it all over London, that the Dorset farmers only give their labourers 8s. per week. Now, if the farmers will allow me, I will entreat them, as my hon. friend Mr. Weld said, to be kind and conciliatory to their labourers, as I am sure they have been, and if they come forward and respectfully and quietly ask for an increase of wages I believe it will be granted to them. But, as I have said before, and I believe it, this question of labour is a landlord's question. I protest against gentlemen walking about the country interfering in this matter—let farmers and labourers settle it; but I repeat, it is a landlord's question, and it is their duty to take it up and look matters in the face and see if they can bring about an amelioration. I believe they can. Gentlemen have said to me, "Why is this a landlord's question?" I have answered them—Because if this goes on all the farmers will leave their farms and I shall have to lower my rents. And I don't like it—that is the truth of the matter. Unless the labour question is settled farms will fall into hand, and the landlords will be the sufferers in the end, although not for a year or two. If this question is settled it must be to a great extent by the landlords. I have not told you what I am going to do yet. I intend to set the lead in this county in doing my duty as a landlord, and I hope that in a few years there will not be a tenant-farmer on my estate who will not be able to snap his fingers and say, "I am comfortable with regard to my labourers and everything else." I will now tell you another anecdote about somebody else—not Joe this time. When I was in London the other day, and as I was driving to Euston-square station, who should I see there at nine o'clock in the morning but Mr. Gladstone. I said to myself, "Here's an opportunity" for I am like the busy bee, improving each shining hour! "I'll say nothing, but get into a railway carriage with Mr. Gladstone, and have a nice little chat." I did so, and we rode together from Euston-square to Rugby, he and I alone. I would here observe that a pleasanter journey I never experienced during the whole of my natural life. Although he knows I am a Conservative, and vote against him whenever I have the opportunity, anything more pleasant, agreeable, or affable, or such a fund of information as that man holds in his head, I have never come across in my life before. After being in the carriage a little time I said to myself, "I

will run him a trial on this labour question." I said to him, "Now, Mr. Gladstone, do tell me what I am to do about this question of labour, for I am going down to Wareham, and for the life of me I don't know what to say except what I think myself." He drew back a little bit, but said, "Well, I cannot exactly tell you what to say, but I think it is a question of supply and demand, and in a few years it will settle itself." "But," he added, "I have an intimate friend"—and as it is very much to his credit I don't see any harm in mentioning his name—Mr. Tolle-mache. "He told me," proceeded Mr. Gladstone, "that a few years ago, when he came into his property in Suffolk, he found a miserable state of affairs, the labourers all at war with the tenant-farmers; whenever harvest arrived the labourers tried to make themselves as unpleasant and disagreeable as they could be. But what did Mr. Tolle-mache do? He set to work at once building cottages, so that all his tenants had a sufficient number of cottages to supply the demands of the various farms, and he gave the labourers allotments. Well, he told me that he had been there since, and should not have known the place again; instead of there being dissension and discord there is now nothing but harmony one with another." Therefore I say this question is for the landlords. Although it may not be pleasant to them, and although some of them say they are not able to afford it, it is the bounden duty of the landlords throughout this country to build the required number of cottages on the various farms. Indeed, I myself have gone so far that at a farm of mine at Forston, I have ordered four cottages to be built, and I shall call them "Gladstone-row." Now I am going to say something not at all palatable to the farmers—I cannot help it. We all have our crochets, and I have mine. I know it is a very unpopular thing to say, but I am going to bring it out all the same. I like to have the cottages in my own possession—it is a crochet, and you must not be hard upon me. If I build cottages I like to have them in my own possession; but this I may say to those who will occupy my cottages which I am going to build—and how delighted my tenants will be when they read my speech!—"You may have this cottage and allotment of me, but I consider it a *sine qua non* and part of the bargain that you work on the farm where you are." If I make that stipulation, and as a crochet I like to have my cottages in my own hands, I do not think the tenants have anything to complain of. Now I think I have summed up pretty well my ideas on the labour question. I have spoken honestly, straightforwardly, and openly, and I may have said some things not palatable to the labourer, one or two things not agreeable to the tenant, and several extremely disagreeable to the landlord. But all that I have spoken has been candidly and boldly, because I believe in my conscience that the advice I have given is upon the principle of equity, right, and justice; and I am convinced that if the landlords, farmers, and labourers would only read my speech, and take my advice, we shall be a compact, united, and firm body, able to resist all attacks, whether from members of Parliament like Mr. Auberger Herbert, or from itinerant demagogues like Mr. Arch.

THE CULTIVATED AND UNCULTIVATED LANDS OF ENGLAND.

(From Sir John Sinclair's Address to the Board of Agriculture, July, 1794.)

It is not difficult, even on such data as have been already obtained, to make calculations sufficiently accurate for every useful purpose respecting the probable advantages to be expected from the improvement of the kingdom in regard to income, capital, and population; and perhaps a short statement of such advantages may awaken more the public attention, and be more satisfactory to the generality of the people than long disquisitions. He had, therefore, embraced the earliest opportunity of throwing together some ideas upon the subject for his own private satisfaction, and for the consideration of the Board and of the public. Of the different reports given in to the Board, that from the county of Cambridge is by far the most minute, the surveyor having with great labour gone from parish to parish, and in general having obtained sufficient information in regard to stock, produce, and population. At the conclusion of his report he recapitulates the increase of rent which may be expected by improving the culti-

vation of 319,300 acres in that county, of which the following is an abstract:

No. of Acres.	Description of the Land.	Increased Rent per Acre.	Total Increase.
150,000..	Waste and unimproved fen	£0 10 0	£75,000 0 0
132,000..	Open and common field arable land ...	0 8 0	52,800 0 0
19,800..	Inferior pasture	0 9 7	9,487 10 0
7,500..	Of Upland common	0 11 0	4,125 0 0
8,000..	Of fen common	0 10 0	4,000 0 0
2,000..	Of $\frac{1}{2}$ yearly meadow land	0 8 6	850 0 0
319,300..	At an average about 9s. per acre.		£146,262 10 0

That it seemed to him impossible to contend that these rents are exorbitant, or beyond what any tenant would be willing to pay for the advantage of having his land drained, enclosed, and put in a state of improvement. This seems, therefore, a fair foundation on which the following calculations may be built: That the above increased rent, it is evident, can only arise from increased produce, or decreased expenses, but principally from the former; and it is not unreasonable to say that the tenant ought to have of increased produce alone thrice the increased rent, or, in the county of Cambridge, deducting smaller sums, £438,000 per annum. That to prove this is a low calculation, it is sufficient to remark that, stating the additional produce of 319,300 acres at £438,000 is only at the rate of about £1 7s. per acre, which surely cannot be called too high an estimate. That in order to judge what addition this would make to the national capital, the increased produce ought to be multiplied by 30; hence the total value, at 30 years' purchase, would amount to £13,140,000. That in the view of additional population the result is equally satisfactory. According to the common calculation, £10 at an average is sufficient for every human being, men, women, and children included; consequently, £438,000 of additional produce would furnish subsistence to 43,800 additional inhabitants. The general result, in regard to Cambridgeshire, is then as follows:

Number of acres to be improved	319,000
Addition of rent, at the average of about 9s. per acre	£146,262
Additional produce, at £1 7s. per acre.....	438,000
Additional to the national capital at 30 years' purchase of the produce	13,140,000
Probable increase of population.....	43,800 souls.

That for the purpose of calculating the extent to which improvements may be carried in the kingdom at large, it is necessary to state that, according to the computation of the celebrated Dr. Halley, Cambridgeshire is a 70th part of England and Wales; consequently, the above results are to be multiplied by 70, in order to ascertain the improvable value and population of the southern part of the United Kingdom. The result of that calculation would be as follows:

Number of acres to be improved.....	22,351,000
Addition of rent, at the average of about 9s. per acre	£10,057,950
Additional produce, at £1 7s. per acre.....	30,173,850
Addition to the national capital at 30 years' purchase of the produce	905,215,500
Probable increase of population	3,017,385 souls.

That of the number of acres to be improved—namely, 22,351,000—one-half probably consists of waste lands, and the other half of common fields and lands under defective cultivation; and that great as would be the benefit to be derived from the improvement of the former, it was the latter from which the greatest expectations of solid advantage were to be entertained. That doubtless there would be some, who, unaccustomed to such calculations, or perhaps from despondency of temper, might be inclined to question them. They may probably say that one district is too small a foundation, on which to build so great a superstructure: that Cambridgeshire has an unusual proportion of wastes and common fields, and consequently cannot furnish fair data for such a calculation, &c., &c. To this it may be sufficient to answer, that in such cases minute exactness is not to be looked for. That to be able to form some general idea of the nature and extent of public improvement, is a great step gained. That from every information which the Board of Agriculture has as yet been able to procure, there are at least twenty-two millions of acres, partly waste, and partly already in cultivation, which may be made to yield an additional produce of £1 7s. per acre. That the above calculations are confined to South Britain; and that one-sixth more, at least, might have been added for North Britain, had there been any wish to make exaggerated estimates: and that as much of the additional produce will consist of wool, hides, and other raw materials, which will employ many hands, and the value of which will be trebled by being manufactured, it is impossible that the above statement can do justice to the additional wealth and population of the country, resulting from a general improvement of the soil; more especially, when the improvement of the live stock in the kingdom is taken into consideration, from

which so much additional advantage may be expected. Another objection may be urged, is, that no deduction is made on account of the expense of these improvements. That is undoubtedly a circumstance to be attended to by those private individuals, by whom those improvements are to be made. But in a national account, that is not an object for consideration. The public pays for none of these improvements; though John employs Thomas to survey a waste, to inclose a common field, to build a new house for a farmer, or to raise new plantations, the public, so far from losing, gains by the expenditure. The money thus laid out might have lain dormant in the coffers of a banker, might have been wasted on foreign luxuries, might have been employed in manufacturing articles for foreign markets which were never paid for, or might have been destined for the cultivation of distant territories, with all the risk of being taken from us by an enemy, or declaring themselves independent. How different is the result when our money is laid out at home, and employed in a manner in every possible point of view so peculiarly beneficial. The improvements of our own land cannot be taken from us. They require no additional troops to defend them, nor fortresses to be reared for their protection. But if any person should incline to consider the money expended in carrying on the amelioration of our own soil as so much national loss, let him state the expense at the sum of £4 per acre, which is certainly sufficiently high (for the first crops, after any field is improved, are in general so luxuriant as to repay all necessary expenses), and even then ample inducements for improving will still remain.

The expense of improving 22,351,000 acres, at } £4 per acre, would amount to... ..	£89,404,000
Interest thereof at five per cent.... ..	4,470,200

These sums are to be deducted from £905,215,500 of additional national capital, and £30,173,850 of additional national income. That here it was impossible not to advert to the astonishing difference between expending eighty-nine millions in improvements at home, or in foreign conquest. After the expenditure of that sum in war, it would be accounted a most fortunate means of reimbursement, if we could secure any territory, by a commercial intercourse with which, five millions per annum could be gained; whilst, at the same time, it would be necessary to pay at least five millions of additional taxes. But if that money were laid out at home, or rather, if private individuals were encouraged to expend a part of their wealth and capital in the internal improvement of the country, instead of new taxes being necessary, the old ones would become lighter and more easily paid, and instead of dragging five millions per annum, at an enormous distance, and consequently with much risk and expense, thirty millions would be produced within our own domain, and always at our command. That these were truths which had been often vaguely talked of, and consequently made little impression, but which were now likely to be probed to the bottom, and established beyond a doubt. He should conclude with remarking, that, with such a prospect of public prosperity resulting from the labours of the Board, he was persuaded every member of it would persevere with alacrity and zeal, in completing the great undertaking in which they were engaged; the effect of which would be felt and remembered whilst any vestige of civilisation, of useful industry, or of political happiness could be traced in Europe. The following is an abstract of the agricultural state of Warwickshire (known to be one of the best cultivated counties in England) as reported to the Board of Agriculture.

	Acres.
Land in tillage: Wheat, 25,700; fallow, 15,000; turnips and vetches, 15,000; barley, oats, beans, &c., 41,500; tillage lands grazed, 45,000 ditto in grass and mown for hay, 12,330. Total	154,530
Gardens 4,000; meadows, 82,000; woods, canals, and rivers, 5,000	136,000
Roads supposed to be	10,470
Open fields 57,000; pasture and feeding lands, 150,000; waste lands, 110,000	317,000
	618,000

On the supposition that only £1 7s. could be obtained from 317,000 acres of improvable land, and 10s. of additional

produce from 154,530 acres under tillage, which might certainly be expected from abolishing fallows, &c., the result would be £505,215, and as Warwickshire is a 60th part of

England and Wales, the total additional produce of the southern part of the kingdom would on that supposition be £30,312,900 per annum.

THE LAST NEW CURE FOR THE CATTLE PLAGUE.

TO THE EDITOR OF THE MARK LANE EXPRESS.

SIR,—I have observed in *The Pall Mall Gazette* a proposal to treat animals affected with the cattle plague with Turkish baths, and several other plans for treating this disease have been suggested elsewhere. Now it is useless to discuss any mode of treating the cattle plague, because every animal affected is, according to the Order of the Privy Council, to be immediately slaughtered. The Committee appointed by Government, after many experiments, came to the conclusion that though very active remedial treatment appeared in some few cases to arrest the disease, yet the contagion during the process of cure spread so rapidly, that for one animal that was saved by the treatment twenty were sacrificed by catching the disease. The extensive morbid changes shown by the examination of animals which have died from the cattle plague, and which are so well depicted in the Government report, prove that in most cases very little benefit could be derived from any treatment.

The foot-and-mouth disease, though as infectious as the cattle plague, is fortunately much more amenable to treatment, and the question of treating it is much more worthy of attention. The experience of Mr. Cheney, of Gaddesby Hall, Leicester, and other large cattle owners, has shown that, by isolating the affected animals and rendering the discharge from their nostrils and feet harmless by carbolic acid, the foot-and-mouth disease can be as effectually stamped out as the cattle plague has been by the immediate destruction of the animals affected with it.

The greater part of our principal farms are provided with outhouses to which the affected animal could be driven; but where it would be necessary to provide shelter for the isolated animals, it could be given at a very trifling expense. At a corner of the field the hedges would protect the animal from the north and east winds: the fixing of a pole for the attachment of the wire required to confine the animal, the use of a rick-cloth to keep off the rain, and the straw for the litter would involve such a trifling expenditure that the landlord would, in the case of a poor tenant, willingly defray it; or the neighbouring farmers, for the sake of preserving their own stock, would subscribe to keep a field adjoining their own farms free from an infection, which the wind, stray dogs, or birds might convey to them. Humanity, as well as self-interest, will dictate to farmers the necessity of sheltering animals affected with inflammation of the air passages from inclement weather, and of supplying them with food, when, from the disease in their feet, every step they take in search of it is attended with pain. As the winter comes on the herbage will be too scanty to receive much of the contagious discharge from the animals affected with the foot-and-mouth disease; many animals will be kept under shelter, and at a low temperature the contagious principle of this and other infectious diseases is much less active: we may consequently reasonably expect some abatement of the disease. Farmers may therefore be unwilling to adopt the measures required to stamp it out and prevent its return. They should remember that this year, though many farms have been attacked, the disease has often been so slight as to require but little attention, and only on a few farms have there been any very serious losses. As summer returns, however, the disease may, like many other epidemics have done, including the cattle

plague, return in an aggravated form, and severe cases may be the rule, light cases the exception. This consideration should convince farmers of the necessity of stamping out the disease now while there are comparatively but few farms attacked.

Farmers are naturally anxious, before attempting to stamp out the foot-and-mouth disease, to obtain some security against its re-importation, and they would, I believe, find little difficulty in obtaining the assistance of Government for effecting this object. The Marquis of Ripon is about to submit to the consideration of the Privy Council my suggestion for enforcing, by penalties, the adoption of what they now merely recommend (paragraph 19) as to the isolation of affected animals, and extending the necessity of medical treatment to all contagious diseases, in place of limiting it to the sheep-scab disease (paragraph 29).

I shall also suggest that the re-introduction of this and other contagious cattle diseases could be prevented by dividing the cattle when imported into two classes—(1) those intended to be killed, which should not be moved from the place of disembarkation; and (2) those intended for removal either for fattening or breeding purposes, which should be washed, thoroughly disinfected, and kept under surveillance for a week before removal. There would be no difficulty in Government immediately carrying out this plan for preventing the introduction of diseased animals among our flock and herds. Portable cattle-houses affording all that could be required for this purpose can be obtained in any quantity, and they could be affixed at a very trifling expense at all the ports used for the importation of cattle. The captains of the vessels used for the conveyance of cattle should be required to have a sufficient knowledge of veterinary surgery to enable them to reject diseased animals.

It is only, however, by these proposals receiving the almost unanimous support of the Agricultural Societies that I can hope to see them adopted by Government.

Your obedient servant,

HENRY REECE, M.R.C.S.

168, Piccadilly, Nov. 9.

[We subjoin the letter referred to.]

AN EFFECTUAL CURE FOR CATTLE DISEASE.

TO THE EDITOR OF THE PALL MALL GAZETTE.

SIR,—The alarming inroads of cattle disease throughout the kingdom cannot but cause serious apprehension in the minds of all thoughtful persons, both as regards the diminution of our live stock, and the unhealthy condition of the animals that are left, upon which the country depends for its future supply. As there exists, however, a means of cure, which, if adopted, would not only stamp out disease but prevent future outbreaks, I trust you will permit me, through the medium of your columns, to advocate the simple and inexpensive remedy of the Turkish or hot-air bath as the most effectual means of cure that has yet been tried. The expense involved need not be more than £3, and both in pleuro-pneumonia and rinderpest it has proved a safe and satisfactory remedy. The cures of pleuro-pneumonia in Lord Kinnaird's bath for cattle at Mill-hill ten years ago were so remarkable that it seems incomprehensible why such an invaluable remedy has not been more extensively made known and adopted. Equally successful results in the treatment of various diseases have been obtained in Dr. Barter's bath for cattle at Blarney, Co. Cork, and in

Mr. Scriven's bath in the North of Ireland. Valuable information as to the treatment of diseased cattle is given in a pamphlet published by Mr. Scriven, entitled "Four Years' Experience of the Turkish Bath on an Irish Farm," which ought to be in the hands of every cattle proprietor in the United Kingdom.

When the rinderpest was raging in the Ukraine during the Crimean War, a farmer there made trial of a vapour bath of the simplest kind for his cattle, which he states "was of such eminent service, that out of 600 head of cattle he lost but six per cent." The same means of cure lies within the reach of every farmer who owns a cow-shed, and the necessary directions for carrying it out are to be found in a sixpenny pamphlet entitled "Collected Fly-sheets on the Turkish Bath," to

be had of Mr. Waugh, secretary to the Turkish Bath Company The Hammam, 76, Jermyn-street, London, of whom Mr. Scriven's pamphlet may also be procured. No time should be lost in the matter, and I would therefore urge all persons interested in this subject—so important in its effects upon the food supply of our entire population—to procure at once the pamphlets alluded to, and to utilize without delay the clear and practical directions contained in them for the employment of radiating heat as a means of cure for disease of various kinds, and likewise as the most effectual of preventive measures that can be adopted.

Hoping that these suggestions may be of use to the public, I am, sir, yours obediently, A. M.
November 6.

S H E E P - B R E E D I N G .

In treating of the branch of sheep husbandry that comes under this head, I must necessarily discuss points and principles that are applicable to the rearing of all farm stock. I must draw some of my facts from the experience of cattle breeders; and, necessarily, a considerable part of my paper must be deductions from facts, and thus fairly be considered as theoretical; and so far as my opinions may be fairly classed among the things that have never been established beyond all doubt by actual trials, I shall offer them with becoming diffidence, and with a full knowledge that many able thinkers entertain different opinions in regard to the leading principles that should govern the breeder of domestic animals, and I shall welcome any one into this important field of inquiry, whether he may agree with me or not, if he will only add the least amount of light where there is so much darkness that it is desirable to dispel. The most important difference of opinion among breeders is in regard to the degree of consanguinity that is admissible between the animals that are to be paired together. From time beyond which neither tradition or history can be traced, among most nations there has existed an opinion that near relatives should not marry; and the notion is nearly universal that the children of cousins are apt to be imbecile in body and mind. Facts are constantly quoted to sustain this opinion, and so facts in abundance are produced to show that these defects of body or mind are no more common to the children of cousins than to the children of parents having no blood relationship; and so confident are the parties that deny the injurious results following the marriage of cousins that we see such marriages very frequently, and especially in what are sometimes called the higher walks of society. Perhaps it would be better to say that the more effete classes, by the luxuries that wealth has given a few generations, have lost that vigour of constitution necessary to a perfect reproduction of their species. So, from all that has been said and written on this point, it would now be very difficult to say what is and what is not established in regard to the facts. Some physiologists have attempted to dispose of this conflict of facts by saying that the qualities of parents do not descend to their offspring in equal degrees, as would be indicated by a mathematical statement of a pedigree. They say that brothers of the full blood often are so unlike in all their structures, both of body and mind, that no one unacquainted with their origin would suspect from their appearances that the least relationship existed, and that first cousins, who, mathematically estimated, have one-half of their blood alike, may in fact have inherited from the different lines from which they have descended organisms very unlike each other. In the case of brothers, one may resemble the family of the common mother, and the other of the father. Cousins that have inherited constitutions from such of their parents as were not by blood related in the least, such reasoners say, may be properly married, as really they are not constitutionally related at all. This is theory, but it is a theory founded upon a vast array of facts, that to many men make proof as strong as Holy Writ. So deeply is this opinion founded, even in the common mind, that the term "takes back" has come into general use to express the idea that men and the lower animals often resemble the grandparent or great-grandparent more than they do their own immediate progenitors. Now, in cases where one brother

"takes back" to one grandfather, and the other brother to another, they may not resemble each other at all, as measured by the eye of a stranger. But the children of these brothers may in turn so "take back" that the daughter of the one may resemble the same ancestor that the son of the other resembles. When this happens these reasoners say that such parties should not be mated. Admitting this theory to be well founded, it follows that the breeder of domestic animals should possess a very exact knowledge of the animals he is handling, and that he should have in his mind a very well-settled plan of operations, and a standard of excellence toward which he is aiming. He should know the whole history of his breed, or family, of animals, and what it was before any systematic plan of improvement had in any respect changed it from the condition in which it originally existed, and a knowledge of all the changes that have been made during the time in which improvement has been going on. Breeding "in-and-in," as the mingling of the blood of animals nearly related is termed, has been resorted to by all the great improvers of domestic animals. They were forced to this, because, having procured the best animals of their kind, they were obliged to breed their posterity together, or breed them with inferior animals. The well recognized law that within certain limits "like produces like," requires that the standard toward which the breeder is aiming should never be lost sight of, and uniformity (not crossing of things unlike each other, except as changes to correct defects are desired) being constantly aimed at, there is no option, and the breeder must keep within the family, and this is but breeding "in-and-in," more or less. Bakewell in England, and Hammond of Vermont, bred their sheep in the closest manner. I believe Mr. Hammond did not pay the least regard to the relationship of the animals he paired together. The origin of the famous "improved" Shorthorn Durham cattle gives us instances of the most extreme breeding of this kind of which we have any knowledge. The results, so far as I have been able to learn them, of this close-breeding, all teach one and the same lesson, and that is, that persistence in breeding in-and-in can only be successful in the most skilful hands. A single case or two will, perhaps, do well enough in anybody's hands, but, by-and-by, in-and-in breeding ruins every herd that is not in able hands. An authority says on this point: "Inter-breeding in such close relations is a nice—possibly a hazardous—thing, and can only be practiced by experienced men, who are good physiologists, have a just appreciation of both the good and indifferent qualities which their cattle possess, and the knowledge how to couple them together to produce favourable results." By in-and-in breeding we concentrate the blood, and avoid, in the progeny, the tendency to "strike back" in anything but a uniform manner, by lessening the number of the ancestors. This idea is expressed very clearly in any essay of Mr. T. S. Humrickhouse, of Coshocton, Ohio, who says: "If there be any advantages arising from having placed in the line of the direct ancestry, near and remote, a great number of approved individuals, both male and female, it follows that there must be far greater advantages arising from having the same one individual—if he be of marked superiority—placed the greatest possible number of times. . . . Then, under the operation of the principle of atavism (ancestral excellence or peculiarity), the

chances that the resemblance of such unequalled ancestor will be obtained must be in the ratio of the number of times he occurs in the ascending lines." If these views are correct, we see how ruinous to a flock one diseased animal will prove if his use is continued. A perfectly sound constitution, free from any taint of disease to be transmitted, is absolutely required if the blood is to be concentrated by in-and-in breeding. What is to be done by the flock-master when he has discovered some transmissible disease appearing in his flock? He must at once resort to outside blood that will counteract this injurious tendency. Fortunately, in the Merino sheep, there is no difficulty in finding pure blood, on various soils and in various climates, that has been subjected to such a vast variety of treatment, that though once belonging to the same stock, constitutional tendencies have become so unlike that the means are within reach of such breeders as are themselves qualified to select the proper animals to correct any wrong tendencies that they may have discovered in their flocks. Skill on the part of the breeder is required, and, having knowledge of what he wants, he is able to find it. But if he have not that knowledge, who can help him? The objection sometimes made to breeding from animals nearly related, founded on the law given to the Jews to regulate their practices among themselves, will have little weight if we but consider that though these laws may have had some foundation in physical considerations, they were evidently founded more on the proximity of the relationship by affinity than by consanguinity. Their principal object evidently was to preserve the purity of the family circle. The marriages of men and women can never be governed by pure scientific principles, and man is something more than an animal, and something more than mere body is to be produced in his case. On the other hand, domestic animals are to a very considerable extent, as they now exist, artificial and of man's creation; bred, fed, killed, for his profit, as to him appears good. To sum this matter up: Improvers of breeds of sheep, as well as other domestic animals, will be forced more or less to breed in-and-in. These improvers should furnish the stock rams for the great mass of flock-owners, because they can furnish better rams than unskilled flock-owners can breed; and, making the improvement of sheep their business, they can raise the stock rams at less cost than can common flock-owners, and rams thus produced will greatly improve the common flocks into which they may be introduced. Thus the comparatively unskilled man finds that by drawing his stock rams from better flocks than his own, he is constantly improving his flock, and he is doing this at less cost, and with greater rapidity, than he can in any other way. The breeder of rams may have an animal that, because he is a little, and only a little, better than any man else can show, is for this reason nearly priceless to use in a flock that approaches this paragon in excellence, while he would not be worth, to the owner of an ordinary flock, very much more than his brother, that comes a little short of him in some point of excellence. So it does not follow because breeders of rams for others to use are willing to pay each other large sums for very choice animals, and are fully justified in so doing, that the owners of common flocks should pay for second-rate rams very large prices. There are in any business only a few men who are masters—the great body are followers. Only now and then will a breeder of stock rams be so successful as to make the business very much more profitable than keeping an ordinary but improving flock. The few that do succeed, and make a mark, do the public much more good than they do themselves, however rich their reward. In the older States there will for a long time be many advantages for improvement that will ensue to the keepers of small flocks of choice sheep, that will not be possessed by flock-owners of the new States, and I think that for a long time to come the owners of large flocks in the far West will find it for their advantage to look to the East for their stock rams. I believe that vast quantities of clothing wool are to be produced, in a not very remote future, west of the Mississippi, and that this wool is to owe its best qualities to the rams that are bred near the Atlantic Ocean. All improvers of domestic animals, I believe, are sticklers for what is called pedigree, which is simply proof of unbroken descent in all the quarterings from some admitted pure stock. This is a very general definition, and does not cover all the ground that is in the mind of a breeder. He will require a history of the particular line through which any individual has descended, so that purity of blood is not all that is held of value in a pedigree. It is the one thing that must belong to all pedigrees of

thoroughbred animals, but much more than this is required to make an animal bring the highest price. This point is well shown in the market prices of the improved Shorthorn Durham cattle. There are thousands of animals whose pedigrees can be as perfectly traced to the common ancestry as can be that of the Duchess family—that, just because they are not of that particular family, sell for hundreds of dollars, while could they but show that they were sufficiently strong in this most-esteemed Durham blood, would bring thousands. This may appear absurd and unreasonable to persons who have not considered the whole subject, but the men who make these distinctions, and prove their sincerity by paying their money, say that the Duchess family has for so long a time produced the very best of animals, as determined by trials in England and here, without anything like the ordinary percentage of second-rate ones, that their progeny are certain to be first-rate, or so nearly so that their value is really as great as the market price indicates. The advocates of in-and-in breeding constantly cite this family as the best of proof that by close breeding this great excellence is obtained—and certainly no person who knows the history of this family of Durhams will pay their market value unless he is a firm believer in the closest breeding. The Duchess family has been bred so closely that it may be said, with almost literal truth, that the nearest relations have been mated without any hesitation on that account, as long as their ability to procreate continued—breeding a bull to his own sisters and daughters, and grand-daughters, and so down. The fact is undisputed that the bulls of this Duchess family produce the most marked improvement upon other families of the Durhams, and in this fact lies a large part of their selling value. This ability to make their mark is believed to be due to the fact of their having descended from the close breeding I have stated. Individuality has been intensified, and however the progeny may "take back," it can hardly fail to resemble and inherit the good qualities of the family as it now exists. The owners of thoroughbred females that are not of this particular family pay largely for Duke bulls, as the intensity of their blood is supposed to be able to prevail over the blood of families less closely bred in-and-in. Owners of ordinary, or so-called native cattle, have not the same reasons for paying a very high price for a Duke bull, as any well-bred Shorthorn Durham bull will have strength of blood to prevail over the mongrels and cross-bred cattle. This opinion that the Duke bulls make more impression than ordinary full-bred animals has a parallel in the rams that have been bred by some of the principal improvers of sheep. They have been close in-and-in breeders, and the rams thus produced have made great improvement on the flocks with which they have mingled. Though the ewes were equally full blood of their breed, yet these close-bred rams have, in very many cases that have come under my observation, stamped themselves, so far as form of body and weight and value of fleece is concerned, in a most marked manner. While I say this in regard to the males of these close-bred flocks, I must say that, so far as I have been able to get at the facts, the females of these flocks have not proved to be of especial value as breeders in the hands of persons who have introduced them into their flocks. We have no herd-book, or flock-book, in which to record the pedigrees of our sheep, as have the cattle-men for their stock; so it has come to pass that the name of the breeder has had to take the place of a recorded pedigree among the sheep-men. A breeder of Durhams does not particularly inquire as to who has bred any particular animal; but, rather, he looks over the herd-book, and carefully studies the pedigree there recorded; while it very often happens that the selling value of a good-looking ram—that has not been tried as a stock-getter—depends very much on who bred him. Is not this an unconscious testimony in favour of in-and-in breeding? Useful as pedigree is in determining the value of an animal as a stock-getter, there is yet something wanting until he has been tried and his qualities proved. Some animals have a greater power of transmitting their own qualities than others, even of the same breeding, and this fact can only be ascertained by actual trial.—ATAVISM (from the Latin *atavus*, ancestor): "The recurrence of any disease or peculiarity of an ancestor, after it has been intermitted for one generation or more; also, the recurrence of the original type of a species in the progeny of its varieties." I have given this definition of Webster of a new word, that the scientific men use, to convey nearly the same idea that the less learned express by the words "take back." This definition takes for granted that organisms are not in-

herited in mathematical proportions from ancestors. Prof. James Law, of Cornell University, says that this "Atavism, reversion, or breeding back, is another and troublesome cause of variation. Its operation is seen every day around us. A child resembles not its own parents, but its grandparents, great-grandparents, or more remote ancestors, alike in form, features and habits. The Galloway, Suffolk and Angus cattle, which have been black and hornless for a hundred or a hundred-and-fifty years, occasionally produce a brown or white calf which grows horns;" and he goes on in his lecture, on the principles of breeding domestic animals, delivered before the New York State Agricultural Society, to give many instances of this atavism, which go to show that, "though such reversion will sometimes occur without any apparent cause, it is more frequently induced by some change in the conditions of life;" and that animals allowed to run wild are inclined to revert to their original type, and that violent crossing between two races of strongly fixed types also tends to reversion, and he gives several cases to prove this. The sum of the whole of this matter is this: An old and pure breed of animals has a fixed type that it nearly always preserves among its own members; though sometimes an animal will appear that shows some uncommon points, that is only to be accounted for on the principle of atavism, that reach away back to the founders of the breed; but the older the breed is, the stronger the blood, and the less frequently these cases of variation occur; and that breeding in-and-in aids in intensifying the blood, and lessens the chances of this reversion to old and forgotten ancestors. So it appears that a pedigree that reaches back many centuries, and in which there has been much close breeding, gives assurance not only of uniformity of type in the future, but guarantees the ability to rapidly change into its own likeness any less ancient branch of its own race of animals with which its blood may be mingled. Having stated these advantages of in-and-in breeding, I feel called upon to warn my readers against rushing too fast into these deep waters, for there are perils to be encountered even here, and none but the most skilled navigators fail sooner or later in being stranded on the rocks. In my own experience in breeding sheep, I have never followed the in-and-in line of breeding quite to the breakers, but with Durham cattle I have continued so to breed until sterility was the result, and I was obliged to resort to comparative plebeian blood to get calves. With cattle, I have seen rheumatism and scrofula follow close breeding that was, in my judgment, intensified by it. It is manifest that whenever any disease that can become constitutional and hereditary appears, the animal that is the subject of it must no longer be mated with its near of kin, for the same taint, though it may not yet have revealed itself, probably lies dormant in the other members of the family. At once new blood though it may be considered, for ordinary use, of a lower grade, must be introduced. "Mr. Bates, so celebrated in connection with his strain of Shorthorns, says that to breed in and from a bad stock is ruin and devastation; yet, that the practice may be safely followed within certain limits, when the parents so related are descended from first-class animals" (Prof. Law). And this distinguished improver of Shorthorns, after having from 1804 to 1881, twenty-seven years, bred entirely within his own herd, was forced to go out of it, and buy Belvedere from another herd, but of the same original blood ("American cattle," page 208); and Belvedere not only stopped the downward course of Mr. Bates' herd, but carried its fame to the highest point. By adopting the wise policy of Mr. Bates, "by introducing at intervals blood of the same breed, but of a different branch of the same family, which has been bred apart for several generations, and, if possible, on other soil and exposure, we can secure all the good of close breeding, and at the same time avoid its dangers."—(Prof. Law.) In the management of flocks of sheep some of the most noted breeders have kept distinct families that crosses within the same blood might be had at home. Jonas Webb, the well-known improver of the Southdowns, "found it needful to keep five different families to draw upon, thus retaining the requisite distance of relationship between the sexes" (Prof. Law). The famous Silesian sheep of Mr. Chamberlain originated from 100 Infantado ewes, purchased in Spain in 1811, by Ferdinand Fischer, who at the same time purchased four rams from the Negretti flock, and never mixed with these sheep any other blood, nor any other flock, but they have been crossed within the families. "There mode is to number (by notches in the ear) every sheep, and give the same number to

all her increase; an exact record is kept in books, and thus Mr. Fischer (a son of the first owner) is enabled to give the pedigree of every sheep he owns, running back to 1811" (Randall's Practical Shepherd, p. 39). So Mr. Fischer has 100 families, every member of which is fully recorded in books, that Mr. Chamberlain saw, and that he has told me filled many shelves. In this way the breeder has availed himself of the advantages of in-and-in, as well as cross-breeding, among 100 families, all within the same breed, and all of equally pure blood. From what I have said in regard to the successful breeding, not only of sheep, but other domestic animals, I think it must be plain that vast knowledge and uncommon natural gifts of judging are necessary to success, and we cannot wonder at the respect that the great improvers have had shown to them by the highest ranks in England, and we think the Queen did herself honour, when on a show-ground she asked a noted breeder of Devon cattle to instruct her as to his views of the points to be aimed at. Having pointed out some of the advantages and dangers of in-and-in breeding, I wish to close by stating the only case that occurs to me, in which there is nothing but plain sailing, and where the novice may fearlessly venture: In the South-West and West, and perhaps elsewhere, there are many large flocks of what are called native sheep, whose wool is so thin and poor that the animal is of but little value except as furnishing the foundation of grade flocks, which, though not as good as full blood Merinos, are still of great value. On these ewes Merino rams may be put, and the same rams put to their progeny, daughters, grand-daughters, great-grand-daughters, and so on as long as they live. The only condition requisite is, that the ram should be of the best quality, and be a getter of good stock, and I should prefer to have his pedigree show that he was from a family closely bred in-and-in, till his blood had become greatly intensified, without having approached or shown any signs of disease or degeneration in the flock. A ram from a flock that for many generations had been handled after the plan of Mr. Fischer should have constitution enough to make a great impression on mongrel blood, and I am satisfied, from what I have seen of breeding sheep, that such a ram might be safely used in such a flock and among his own descendants there, as long as he may live, and I believe that under parallel circumstances a Duke bull may be used in the same manner. Having procured half-bloods, and three-quarters, and seven-eighths, and higher grades still by the use of the same male, never commit the folly of breeding these grades together, but continually resort to the flock or herd toward which you wish to breed for sires, and always procure full-blooded animals. And in selecting them aim to resort to such sources as have not only produced the individual you want, but that have produced many more like him. Skill in selecting, so as to cure defects, will at all stages of breeding be important, and that skill can only come from experience. Books may aid, but practical knowledge must be had, to enable the student to duly understand what may be written by the most skilled flock-master. If I have written so as to aid the beginner in acquiring practical knowledge on this difficult branch of sheep husbandry, then have I accomplished all that I hoped for when I commenced.—The Honourable GEORGE GEDDES in *The New York Tribune*.

TENANT-RIGHT AND THE CHAMBER OF AGRICULTURE.—Compensation for unexhausted improvements, then, is obviously a national question, and therefore should not be left to the tenant-farmers alone to agitate. The farmers, as victims of the closest monopoly that exists amongst us, are about the least independent class in the country. Indeed, the very injustice under which they suffer renders them timid in their efforts to remove it. Those of them especially who farm under a yearly tenancy, and who are liable at any time to a six months' notice to quit, are, naturally enough, afraid to make or support any proposals that will offend their landlords. The better they have been farming the more they would lose if suddenly ejected from their holdings; for the existing state of the law would allow their landlords to confiscate the whole of the property that they had invested in permanent improvements. It is no wonder, then, that in the landlord-ridden Chambers of Agriculture the tenant-farmers are afraid to speak their minds, and that the resolutions passed on a question like the important one now under discussion are likely to be representative rather of their fears than of their wishes.—*The Examiner*.

SACK DEMURRAGE.

At a meeting at Peterborough, Mr. C. ROBERTS, the chairman, said he would try not to be long in laying before them the objects of the meeting, objects which he thought were pretty well known to all present, to try and arrange a fresh system for the hiring of sacks. Under the present system a farmer when hiring sacks at a station was obliged to sign a certain form handed to him, by which he became the original hirer, and being filled and put on trucks they were consigned by him to the order of his buyer at a given station. The buyer in turn sells the grain to some one else, it is ordered to some distant station, and perhaps transhipped again. There were frequently a great many movements and orders in their business in which profits were made by 2d. or 3d. Their difficulties began when the grain was delivered to the miller. He took the corn away in the sacks in which it was sent, not making himself responsible for the sacks, but delaying their return as his feelings might prompt him, or until the requirements of his business might leave him at liberty to return them. It was very likely that they would remain thus for some days, and then Thomas the wagoner would toss them down into the station, and all trace of their whereabouts would be lost. After a length of time, in some cases years, the farmer or merchant, as the case might be, would receive a bill for demurrage extending over that period, when, for all he knew, the sacks had been returned. Thus the farmer's or merchant's trouble was not always over when he had the money in his breeches pocket. This demurrage might be charged for a month or two, or a year or two, or even three or four or five years. (Laughter, and a voice, "Or six years"). To give them a practical illustration, he stated that on the 14th of September he received a bill of this kind, dated 1863, for 33 sacks sent to a certain station (he would mention no names), 106 weeks' hire being charged, together with 2s. 6d. for the sacks; the little bill he was called upon to pay amounting in all to £11 8s. 3d. That was a fair representation of the case, and to those who experienced such treatment it was no laughing matter. Yet this difficulty did not exist on the North-Eastern Railway. He had as many as 70,000 sacks supplied to him during the present week by this company, and never yet had any application for sack demurrage, and should not in the present instance. He never heard that the North-Eastern Railway Company had complained that they did not get their money under their present arrangements; and, on the contrary, he believed they got on better. He wished it to be generally recognized that the interests of the sack contractors and railway companies were not antagonistic, and that the merchants and farmers did not ask them to lessen their charges, but to charge for demurrage those who incurred it, and he believed if this was done it would lessen the troubles both of the railway companies and the sack contractors. To give an instance of the trouble, he said he had received a bill of 5s. for demurrage which he disputed, and nine letters had already been written on the subject. Even in the end, when he was proved to be right or wrong, there would certainly be, as they said in Lincolnshire when a man clipped his pig, "there was a great cry for little wool." He could not for a moment believe but that the companies represented were desirous to better a state of things like that. If under the system which was proposed that demurrage had been properly incurred, it would have been paid for at the time, and there would have been an end of the transaction; and he believed that under the present system such was the trouble devolving upon railway clerks and agents, that the companies expended five times the amount of money in salaries they need do in finding out these questions of demurrage; and he therefore said, without fear of contradiction, that it was to the common interest of all to put an end to this state of things. Being agreed as to the desirability of a change, the next thing to decide was what was practicable. He believed Mr. Hill and others in the room would bear him out, when he said that on the Great Eastern Railway there was rarely or never any dispute about demurrage. It might be said in reply that this was because they did not allow their sacks to go on other lines. This might be so, but at any rate a dispute was never met with for demur-

rage on their line. He would give one more instance. Many present sent large quantities of corn to London, yet he did not know a single case of disputed demurrage, but when any was really incurred they paid it cheerfully. With regard to the North Eastern, the reason given to the Great Eastern did not apply, for their sacks frequently came to Peterborough, Nottingham, and numerous other places off the company's line; tens of thousands of sacks, he believed, went from that line to Nottingham, and cases to prove what he said were as plentiful as blackberries. Then if this system was possible with the North Eastern Railway, it was possible with the others; he therefore asked them to co-operate, and put an end to a state of things which proved so very undesirable. It was for this purpose the representatives of the different railway companies had been asked to attend, and he was very much obliged to them for their attendance; it showed a disposition to consider the question properly. He did not believe what had been said that the sack contractors had no other person legally liable but the first hirer. The question would arise as to what would be done after the passing of the resolution, for he might say that by the aid of the proxies entrusted to him, if he agreed with the resolution, and all the other gentlemen in the room were against it, he would be enabled to carry it by an overwhelming majority. They reminded him of the old proxies of the House of Lords in days gone by. It was, however, all very well taking the horse to the water, but you can't make him drink. They might pass the resolution, but what next? That "what next?" depended upon the gentlemen representing the railway companies. He did not wish to say one word that was offensive, but advice had been taken, and he had been informed that in such cases as he had quoted the original hirers were not legally liable, and he believed that if he was put into court for the £11 18s. 3d., that he could fall back on the railway companies and make a fair case against them, for ever allowing the sacks in question to go out of their station, to which they were consigned, which they had no right to do without his authority. The Chairman concluded by commending the plan adopted by the North Eastern Railway, quoting the 5th condition under which the company let sacks as follows: "Every person receiving grain in the company's sacks is to be subject to these regulations, and will be required to sign an acknowledgment that the sacks are so received before they are removed from the station; and in case of refusal to sign such acknowledgment, the delivery of the grain shall be deemed complete on such refusal, without its being necessary for the company to tender the same." The result of this was, he said, that demurrage was never charged to him on the North Eastern Railway. Similar arrangements by other companies would be most desirable, and would, he was sure, result in the benefit of all parties concerned.

The first resolution was put in the following amended form: "That the farmers (or other persons fetching empty sacks from the stations) should be responsible for the sacks till returned (full or empty) to the station from whence they fetched them, and then their responsibility should be at an end, upon paying any charges incurred up to the time the grain is transferred, and the person to whom it is transferred accepts such transfer; and in case the expenses incurred by the farmer or hirer are not paid prior to the forwarding order being acted upon, the railway company to charge the expenses forward on the grain, the railway company giving the merchant or person to whom consigned an advice of the charges incurred."

The resolution was carried with only one dissentient; and the Chairman stated that in addition to the large majority he had proxies to the number of 256.

The following resolution was also carried: "That with the termination of the farmer's, or original hirer's responsibility all charges for the hire and demurrage of sacks, whether in transit or in warehouse, should be treated in every respect, and collected in the same manner, as carriage."

Mr. COLE (Nottingham) proposed the third resolution, as follows: "That the full sacks on no account leave the different railway companies' stations without the person fetching them away makes himself clearly and distinctly liable for the safe

return of the sacks, and for all demurrage charges that may be incurred."

Mr. R. Roberts seconded the motion, which was supported by Mr. Hampson, of Wisbeach, and carried unanimously.

Mr. JOHN ASHLEY (G.N.R.) expressed himself willing to

meet the secretary, or any number of gentlemen, to consult as to the best means of carrying out the resolutions.

The other railway managers and sack contractors having promised co-operation for carrying out the resolutions, the meeting separated with a vote of thanks to the chairman.

A CHAPTER ON CARROTS.

Whilst capital and labour are each asserting their right to reign supreme in agriculture, it is refreshing to think that in the end it must come to be like lovers' quarrels, or those of man and wife—made up. A little while, and the capitalist and labourer must go hand in hand, notwithstanding past hostilities, for the rich man will neither dig nor beg, and the poor man must either do one or the other, and he must eventually put his shoulder to his friend's wheel, for the rich man who employs labourers is decidedly their friend, whether they acknowledge it or not.

Now the carrot crop, like most of our best paying crops, requires a great deal of labour in its production, and where labour is either scarce or dear, strikes impending or factions rife, carrots cannot be cultivated with advantage to the grower. The carrot, like all other plants, has a scientific name (*Daucus carota*), but it would look pedantic to speak of such a plant botanically. It is a British weed, growing freely on the thin soil in Devon, on the red sandstone; and is rather troublesome in the pasture, and by no means healthy as an herb, being umbelliferous. The wild carrot in its general appearance has little in common with the cultivated carrot; it is properly a biennial, growing to maturity in one summer, and ripening its seed in the following summer, although it will frequently run to seed the same year it has been sown. The culture of carrots for seed has been carried on for many years in this neighbourhood. Altringham, only a short ride from Manchester, has been famous for that variety of carrot which bears its name. A great deal of the soil in that locality is light and friable, and easily worked to any depth, and by road, by rail, as well as by canal are excellent means for getting manure, so that the land is really well farmed; for where the plough alone would not be able to till deep enough, the spade has to supplement it, for nothing less than seed growing or market gardening could cover the cost of deep tillage, sowing, cleaning, and saving the crops. I have named Altringham as avowedly the head-quarters of this valuable root, in order to show the kind of soil suitable to the profitable culture of the carrot. Once for all let me state that, unless you trench or dig deep for carrots, you need not dig at all, but try some other crop. I have had to increase the depth of soil by laying one-half of it on the top of the other half, the land being first loosened by the plough and put in order with the pointed shovel. A piece of land foul with thistles, nettles, and other weeds was bought by a gentleman near Nottingham, and he had to get it trenched deep, in order to get it clean, and having a charitable turn, he gave the job to a poor man, and what with the trenching, dressing, cropping, and weeding, it took the workman all his time to keep pace with the season, the weeds, and the thinning; and by the time the weeds were got under, the crop was getting fit for market, and had to be got up and sold, and the same man that conducted the culture of the crop was now commercial traveller or salesman and cashier, and as he wheeled the produce to market, he might be truly styled carrier as well. There was no supervision, he did just as seemed good to him, receiving his weekly wages, and handing in

his receipts, when it transpired that with the one year's crop of carrots the owner had realised the whole sum paid for the fee simple of the land. Carrots in the seed-leaf are weakly, weedy objects, utterly unable to hold their own against the annual weeds that are always overtopping them, and some growers sow a little mustard seed along with the carrot seed, to mark the line where people are to look for the young carrots; others clean the land, and get it to a fine tilth, but do not sow the carrots, but wait till the seedling weeds get a start, and then set the horse-hoe to work, and after this clearance sow the carrots. This is stealing a march upon the weeds, and was, I believe, the invention of Charles Lawrence, Esq., of Cirencester. In many gardens as well as farms the carrot crop is always worm-eaten. In gardens, peat and sand are generally a remedy where they can be had in abundance; but in farms thus situated, it is better not to cultivate this root extensively. I am not speaking now of the large white Belgian carrot, but of the long red Altringham, and that for a particular purpose, with which white carrots are entirely unconnected. When red carrots are given to cows in milking condition, they improve the milk, the butter, and the cheese. The Scottish housewife grates the red carrot, and puts it into a linen bag along with the cream into the churn, and the butter acquires a rich yellow colour; but when cows are supplied with plenty of red carrots to eat, this colouring process is not wanted, for that which first gave rise to the use of annatto in colouring cheese was the rich yellow colour of high-class cheese; for the milk and cream of Guernsey cows are frequently coloured too highly, and have to be mixed with those of other breeds. No crop is more impatient than carrots are of rank manure; it should never be used until it has undergone disinfection and decay with a previous crop. Parties who astonish us with carrots of extraordinary size, usually grow them in deep soil, by making a hole with a crowbar, 2 feet deep and 3 or 4 inches wide, filling this hole up with finely-sifted peat, sand, and leaf-mould, and sowing two or three seeds over each hole. The carrots thus treated grow very large and quite straight, fit for exhibition. The silky coats of certain carriage horses where the proprietors are horse proud, are chiefly maintained by a due proportion of carrots; and as all horses eat carrots with avidity, it tells plainly how much their craving after carrots may be necessary to improve their condition. I would only add in conclusion that carrots require to be kept very cool and dry, for being a native plant the smallest rise of temperature will start the roots agrowing. A deep dry cellar or shaded outhouse keeps them best, embedded in dry peat or dry sand. Anyone may see what a native plant can live in, and even flower in, when we see the groundsel growing and flowering in a hedge-bank, as if it could hold on its way to ripen seeds when all but in an icicle; and the same may be said of chickweed, as if a kind Providence had reserved such for the birds of the air that have no other barns.

ALEXANDER FORSYTH.

9, Islington-square, Salford.

THE HORSE DISEASE IN AMERICA.

TO THE EDITOR OF THE MARK LANE EXPRESS.

SIR,—Should you think the enclosed of sufficient interest to your numerous readers, I shall be glad if you will insert it in your next issue.

I am, sir, your obedient servant,
ISAAC SEAMAN, M.R.C.V.S.

Priory, S. Walden, Nov. 14.

Epithippic,* a disease now prevalent amongst horses in New York and other American cities, and which appears identical with a disease affecting horses in England, called influenza, belongs to the fever class of diseases peculiar for its disposition to assume the typhoid character; limited to few localities, but some years, especially during autumn and spring months, more widely spread, indeed it may be said not a year has passed without an outbreak of the malady of more or less virulence amongst horses, not only in the stables of our crowded cities, but also in some of our provincial districts. Newly purchased fat horses from the country and taken to London have been the more frequent victims. The liver is the principal seat of mischief in one patient, the stomach and bowels in a second, whilst the bronchial tubes, lungs, pleura, and pericardium of a third are affected, and frequently a fourth complication in the form of acute joint rheumatism. During the years 1841–2 influenza prevailed extensively in different parts of the county of Norfolk, and with such virulence in consequence of the nature of the malady not being understood, the greater majority of cases terminated fatally. A horse master who is so unfortunate as to employ a farrier or veterinary surgeon who from ignorance of the true nature of the disease, but treating it as ordinary inflammation, bleeds, and administers purgative and sedative medicines, will have reason to deplore the

probable fatal results of such treatment. Although years back the disease was not understood, and wrongly treated, I hope now better results are obtained through the advanced state of veterinary science. Prostration of the vital powers of the horse quickly follows the invasion of the malady: the head hangs drooping down, and as though worn out by fatigue the animal will rest one leg after the other in quick succession; the breathing is hurried, the eyelids half-closed, tears flow down the cheeks, the ears and legs are cold, or it may be three are cold, the remaining one moderately warm. The pulse are weak and quick, varying from 60 to 100 per minute, the throat is sore, there is a cough accompanied by a painful grunt, which is more audible when the patient is turned round in its loose-box or stall. Membranes inside the eyelids and nostrils are reddened, there is also a tinge of yellow upon them. In the treatment of influenza, warmth, good nursing, and appropriate medicines are now substituted for the fatal depletive system of the illiterate charlatan with most successful results. With the timely and judicious use of the preparations of potass the (chlorate is the most effectual), the preparations of ammonia, including the acetate, sesquicarbonate, and aromatic spirit of ammonia, the potassio-tartrate of soda, and an occasional dose of chloroform, administered in glycerine when the grunt appears more painful and the horse restless; the legs bandaged with flannel, body clothed with warm rugs, a dry loose-box well bedded with straw, hay-tea and oatmeal gruel, well boiled, frequently offered; and when the eyelids are less red and the legs begin to swell, a pint of port wine twice daily, and, the most essential of all, a kind and attentive nurse—there needs no alarm for the safety of the suffering beast though the blood may have acquired a typhoid condition

* *Epithippic*, Greek. *Epi*, upon; and *hippos*, a horse.

THE INEQUALITY OF LOCAL TAXATION.

TO THE EDITOR OF THE MARK LANE EXPRESS.

SIR,—In your paper of Monday last, 11th instant, attention is very properly called to the greater interest shown at the Central Chamber of Agriculture to the subject of local taxation than to many others more nearly affecting tenant-farmers; if, indeed, *they* have anything but rather an opposite interest to that of the party of which Sir Massey Lopes is the diligent Coryphæus, or shortly, the landlords; because, whatever is taken off the rates will be added to the rent. And as the money for the purposes now charged on the poor-rate must be drawn elsewhere, it is evident that the tenant-farmer will have to bear his share of the taxation substituted for the rates as well as to pay his landlord a rent increased by the sum now paid to the overseer. Even Mr. Genge Andrews admitted, in his evidence before a committee of the House of Commons, that if £90 a year were taken off his rates he should obtain so much more rent.

But there is another branch of taxation which our friends the tenant-farmers have not discussed at their Chambers of Agriculture, though doubtless by having given a portion of Mr. Gladstone's words in your report of the Local Taxation Committee at the Central Chamber on Nov. 5th in capitals, it has not escaped your vigilant eye. They are as follows: "To equality as between the va-

rious classes of the community in respect to their aggregate contribution made to the public burden."

Among the contributions made to the State is a duty on succession by death. In *The Times* of Monday, Major Paget, M.P. for Somerset, is reported to have said that an estate worth £100,000 would probably be divided into about ten farms, each of which would take £2,000 to stock it. If, then, this can be taken as a fair representative case, let us see what the State claims from the £20,000 of tenants' capital, and what from the £100,000 landlords' capital invested in land under the head of succession. Assuming the landlord to inherit such an estate at the age of say 44, on the death of his father, and that $2\frac{1}{2}$ is an average per centage for such investment, as given by the Speaker, we shall find that the owner in fee of the land worth £100,000 will be a contributor of £350 for succession duty, to be paid in four years by equal half-yearly instalments after the successor has been in possession for twelve months. The value is taken as an annuity of £2,500, worth, avoiding fractions, fourteen years' purchase, giving a total of £35,000, on which the duty at 1 per cent. is £350. The ten tenant-farmers, with stock worth each £2,000, would have to pay, on succeeding to their fathers' intestate, £950—viz.,

each administration of £2,000, £75 and £20 legacy duty, *i. e.*, at the rate of nearly £5 per cent. The landlord's tax being only at something like between six and seven *shillings* per cent. Taking into consideration that the administration duty must be paid at once, the difference between the taxation of landlord and tenant may be roughly approximated at *shillings* for the former, and *pounds* for the latter.

Now is it not seriously due to tenant-farmers to ask Sir Massey Lopes and Company to agitate for equalization in this matter of succession duties? When and where have they noticed this anomaly when advocating a readjustment of taxation on a principle of equality? Perhaps some of your agricultural readers will take this question up.

It is noted in your columns of the Central Chamber of Agriculture's report (see Supplement, page 2, col. 1) that "at the recent meeting of the Social Science Congress, at Plymouth, the secretary read an exhaustive paper on the question." In a report of that meeting, Captain Craigie said that some had considered poor-rates as a kind of rent-charge, but as they were not of a fixed amount they could not be so called. Now tithe rent-charge is of a variable amount, for in 1866 it was something over 97 per cent., and in 1861 rather over 112 per cent., a fluctuation of about 15 per cent. in five years. It is evident, therefore, that if the subject was exhaustively treated it was not in the particular above noted correctly treated.

It is further to be remarked that the property so favoured as to be taxed nearly as *shillings* compared with *pounds* enjoys a priority of collection under the law of distress, and freedom from loss by bankruptcy, &c., whereas the tenant-farmer's representatives must run the risk of the millers' and butchers' failures, with payment only to be compelled through the ordinary course of an action at law.

The Legislature two or three years ago abolished the preference of specialty debts over those by simple contract; another step in the same direction will abolish the landlord's preference for rent. This would reduce the competition now existing for farms, and render a good tenant of substance more likely to be taken at a "live and let live" rent than one not known to be solvent, or solvent it may be only *so far as to pay the landlord's preferential claim*.

I have intruded too much, I fear, on your space. The subject of taxation is shortly to be discussed in Parliament, consequent on an agitation commenced by landlords ostensibly opposing inequality. If they sincerely and honestly desire a thorough equality and not merely a transfer of their burden, inherited or uncharged to them if purchasers, to the shoulders of the community, the above are a few items beyond those hitherto discussed at the Central and other Chambers of Agriculture, which will commend themselves to the general attention of the public, and of tenant-farmers in particular.

If probate and administration with legacy duty were added to real estate, and all charged as on small sums, say £2,000, now attaching to personalty, remoulding the latter on all amounts in conformity thereto, with the special extra tax of say 10 per cent. on entails, the income-tax and the malt-duty might be repealed.

Your humble servant, COMMON SENSE.

ORMSKIRK AND SOUTHPORT AGRICULTURAL SOCIETY.—At the annual meeting Mr. Walter Smith, ex-mayor of Southport, presided, and there was a large attendance. The following rule was added at the suggestion of the president: That all parties entering stock or other matters at any show of the society shall be required to state a price at which they will sell the same in their entry. That no alteration shall be allowed in this after the entry is made, and in case the same are claimed, the exhibitor be obliged to sell less a deduction from the price of sale of ten per cent., which shall be given to the funds of the society.

THE ROYAL AGRICULTURAL BENEVOLENT INSTITUTION.

TO THE EDITOR OF THE MARK LANE EXPRESS.

SIR,—It will be evident that the ground of my complaint in reference to the management of the Royal Agricultural Benevolent Institution was that the voting papers were not always sent. I regret that I did state that when my donation was sent no acknowledgment was received from the secretary; but I at once added (my attention having been called to the mistake I had made) that I meant to have said "no voting papers were received." The receipt of course I held from Messrs. Howard, and I required no other. I then said that I understood others had complained, and I thought that if the secretary could not perform the duties of his office he should either get the necessary assistance or those in authority should appoint some one who could. I may add that all who spoke upon the subject (except my brother) stated that they agreed with the remarks I had made. The facts of the case are these: My brother interested himself on behalf of a candidate whom I knew and wished to support. On the 25th of May I paid a donation of £5 5s. through Messrs. Howard. After waiting a considerable time, I told Mr. Reynolds, to whom I had paid the money, that I had received no voting papers. He replied that it was then too late, and that there had been several similar complaints. I wrote to the secretary on the 18th of June, and, after waiting about ten days, received the enclosed reply. I declined the proposal, and the money was returned to me. What would be thought of the secretaries of the Royal Agricultural Society, Smithfield, or Birmingham, if intending exhibitors were coolly told that they might enter a double number next year, as "the press of business" had prevented the despatch of the forms of certificates?

I am, sir, yours very truly,

GEORGE STREET.

Maulden Amptill, Beds, November 13.

[Mr. Street encloses the letter to which he refers.]

Royal Agricultural Benevolent Institution,
55, Charing Cross, S.W., 27th June, 1872.

SIR,—I have to apologise to you for this very tardy reply to your letter of the 18th instant, but the press of work consequent upon the late election has prevented my doing so earlier.

It is a source of great regret to me that the omission of which you complain should have occurred, and I am unable to account for it except in the multitude of names and addresses I have to deal with at a more than ordinarily busy time. If, however, the arrangement should be satisfactory to you, it will give me much pleasure to credit you with an extra vote next year.

I remain, sir, your obedient servant,

C. BOUSFIELD SHAW,
Secretary.

G. Street, Esq.

"Mr. Shaw's letter appears to be all that was required. The minute was unnecessary, and indeed is not strictly justifiable." So says *The Gardeners' Chronicle* in giving the secretary's letter and Mr. Donald Nicoll's minute as agreed to by a majority at the last Council meeting of the Royal Agricultural Benevolent Institution. In our opinion the minute is not merely unnecessary or not justifiable, but scarcely comprehensible. Some of the Council who agreed to it must have known that complaints of the kind had for some time been made from Bedfordshire; as Mr. James Howard, M.P., reported these to Mr. Shaw, sen., the father of the secretary, a short time since, requesting him to look into the matter; and attention was called to it at the October meeting—although not by Mr. Shaw, sen.—when the question was very

cavalierly disposed of. Surely, however, when these complaints assumed so direct a form as they did at the Bedfordshire Society's dinner it was a duty on the part of an Agricultural Journal to give the management an opportunity for reply and explanation; while we studiously

refrained from adding any comment whatever of our own to the speeches we quoted. When people speak out, difficulties can be generally cleared up, as it is only when they conspire and plot in secret that they eventually bring themselves to utter grief.

BOTLEY AND SOUTH HANTS FARMERS' CLUB.

At a meeting held at Botley, Mr. WILLIAM WARNER, the president, read the following paper on "The incidence of local taxation with reference to the occupiers of lands and houses."

The question of local taxation was one which has engaged the attention of Parliament, Chambers of Agriculture, Farmers' Clubs, and I may say the general public for some years. It has long been felt a grievance by the owners and occupiers of lands and houses that the rates for local purposes were levied only on what is called real property, and that personal and other property paid no local taxation whatever. In 1868 Sir Massey Lopes brought forward the subject in the House of Commons, and after pointing out the unfairness of the tax, and how heavily it presses on owners and occupiers of real property, he moved the following resolution: "That inasmuch as the local charges on real property have of late years much increased, and are continually increasing, it is neither just nor politic that all these burdens should be levied exclusively from this description of property." This led to some discussion, and though many did not concur in all the arguments of Sir Massey Lopes, it was generally admitted there was an irregularity and unfairness in the rates for local taxation, which required revision. Since that time there had been a general agitation in the country on the subject, and in April last Sir Massey Lopes, after an elaborate statement of the incidence of local taxation, moved the following resolution: "That it is expedient to remedy the injustice of imposing taxation for national objects on one description of property only, and therefore no legislation with reference to local taxation will be satisfactory which does not provide either in whole or in part for relief of occupiers and owners in counties and boroughs from charges imposed on ratepayers for the administration of justice, police, and lunatics, the expenditure for such purposes, being almost entirely independent of local control." This resolution was carried by a large majority, the result of which is that the Government have promised to bring forward this next session a comprehensive scheme of local taxation; and as it is of importance the subject should be well ventilated, I consider it a very proper subject for discussion by members of this club. In the first place it is desirable to know what is local taxation, and for what purpose it is levied. Local taxation originally was called a poor-rate, and levied solely for the relief of those poor who, from old age and sickness, were unable to provide for themselves. Since that time rates levied ostensibly for the relief of the poor have been applied to other purposes as well, and consequently it has taken the name of local taxation. In the reign of Queen Elizabeth an Act was passed by which all people, according to their ability, were bound to contribute to the relief of the poor, land at that time being the only rateable property of the country. It has been considered by many that the poor-rates are a fixed burden on land, and, whatever may be the amount of property in the country, it is exempt from the poor-rates altogether. This appears to me contrary to reason and justice. Now, I consider the poor-rates as such a national and imperial charge as the property and income tax, wherein every one is rated according to his means, whatever those means and property may be. The poor-rates are for a national object—viz., for the relief of the poor and distressed, and the nation, as a people, are in duty bound, both legally and morally, to contribute to that relief in proportion to their ability. In confirmation of this "The report of the Lords' Committee on parochial assessment in 1850" set forth that the relief of the poor is a national object, towards which every description of property ought to contribute, and that the Act of the 43rd of Elizabeth contemplated such contribution, according to the ability of every inhabitant. Again, Sir George C. Lewis (no mean authority) said, in his evidence before the same Lords' Committee: "With regard to the general policy of imposing a local rate exclusively on one class of property, I am quite prepared to admit that unless it can be shown that there is some

special reason in favour of a local tax, limited to real property, it is more fair and equitable to defray the expenditure out of a national tax, which should comprehend all species of property." Again the Lord Advocate, in speaking on this subject, says: "A remarkable amount of confusion and error exists in the minds of many people with respect to the character—in a legal and politico-economical view—of what are usually called burdens on land. People speak in a vague sort of way of land being inherited or sold and bought subject to its burdens, and when it is proposed to remit or modify any of them the proposal is not unfrequently spoken of as an attempt to benefit the landlords at the expense of the rest of the nation—as a proposal to enrich them unduly by making them a present of so much national property—to increase the value of their possessions by relieving them of a burden subject to which they acquired them, and in respect of which they paid a less price for them than they would otherwise have done. But a very little consideration will, in my opinion, suffice to dissipate these views by showing how fallacious they are. Indeed, it seems plain that such reasoning, if valid, would be an impediment to any reform in the taxation of property with a view to equality and fairness of incidence. The true view of the matter is that although property is undoubtedly bought, subject to the existing taxes, it is not considered that these are necessarily permanent. On the contrary, they are regarded as liable not only to increase or diminution, but to every possible modification, and even total repeal. The purchaser takes his chance of change, whether for better or worse. He must, on the one hand, submit to any amount of new taxes which the Legislature may impose on his property; but, on the other, he is, I venture to think, clearly entitled to the benefit of any repeal of a tax which existed at the date of his purchase, without having it said that he is unduly benefited by being relieved of a burden subject to which he purchased his property. In short, I venture to submit, as a sound proposition, that any tax on land which is brought into question ought to be dealt with by continuing, modifying, or repealing it, according to its own merits as a just, expedient, and politic tax, and without reference to the fact that it is a burden subject to which the land has been bought and sold, which is or was true of every tax, however impolitic, or even iniquitous, that exists or has existed since land was the subject of commerce. Indeed, any other view would manifestly lead to a dead-lock, and the perpetuity of every tax subject to which a landed property had once been sold. For the reasoning would always hold that the tax had as a burden been considered and allowed for in the price, and that the remission of it would be a gift to the purchaser (or his successor) of what had never been paid for. Nor, I venture to think, is there anything in the argument that the fruit or produce of an established tax on land is the property in perpetuity of the nation, and that the remission of it is a gift by the nation to the proprietors of land. The nation is no further interested than this—that all property, whether real or personal, shall be subject to such taxes, whether new or old, as the Legislature may see fit to impose upon it for national purposes; and it is not doubtful that all property is held subject to this condition." To show the present unfairness of the tax I will quote Lord Brougham. He said "that a large manufacturer, deriving £10,000 or £12,000 a-year from his business, contributes no more than many a struggling farmer, though the one frequently augments the number of paupers, while the tendency of the occupation of the latter was to their decrease." In fact, a man may, after making a large fortune by the employment of labour, for some reason or another close his manufactory, thereby throwing the whole of that labour on the parish, he merely paying rates on the house he occupies, and the remainder of his large property escaping local taxation altogether. In the minds of many there seems to be a misconception of what is in reality real property. Some say that lands and buildings only are real property, and that money in

the funds and elsewhere is not real property. Now, really, I cannot distinguish the difference. For example, I will take two persons—A and B. I will suppose A has land worth £20,000, and B has £20,000 in the funds, each has a value £20,000. There must be something real in it in both cases. If in land it is a reality, and if in the funds it is reality as well. I only know if anyone were to leave me £20,000 in the funds I should look upon it as a reality, and as real property. I will suppose A wishes to sell his land, and B buys it with his £20,000, would not the £20,000 he received from B be real, or a reality to him? Of course it would. Land and money are both articles of commerce, changing hands every day, and what applies to one does to the other. It has been argued by some that if all property from which an income is derived is brought within the area of local taxation, it will have the effect of just handing over so many thousands or millions of money to the owners of land and house property. This is a very erroneous idea. If all property were assessed for local taxation on the same principle as the property and income tax it would have the effect of so enlarging the area of taxation as to bring into the net not only owners of personal property, but also owners of real property, who do not at present pay any local taxation on the income they derive from their land and houses, the tenants and occupiers being, as I contend, the only parties who pay the rates. This, perhaps, is contrary to the generally received opinion, viz., that whatever rates are paid by the tenant are, in fact, allowed to him by his landlord in his rent; or, if his landlord paid the rates, he would have to pay more rent. Now, I will endeavour to show that the rates do not come out of the landlords' pockets. When an estate is for sale it is valued at so many years' purchase, according to the clear rent paid to the landlord, without any deductions for rates and taxes, which, being paid by the tenant, are not taken into consideration in the sale. The landlord is no loser by the rates and taxes, as, by not paying them, he gets his clear interest for his money, in the same manner and on the same principle that another party gets his three per cent. in the funds; and if he chooses to sell his estate again, he can get the full value of what he paid for it, and often more, without having paid any local rates on it. There is no difference between the landholder and the fundholder in this respect. It is only a question of choice of investment of capital, each receiving a certain income free of all local taxation whatever. We all know that if a tenant leaves a farm or a house with rates unpaid the law cannot compel the landlord to pay them. If a house is unoccupied no rates are paid, though there is still the house and the landlord left. If a farm is thrown out of cultivation by the landlord, and allowed to run waste so as to become unproductive, there are no rates paid, though there is still the land and the landlord left. In unenclosed waste lands there are no rates, though there is the land and the owner of the land; but when the land is enclosed and let to a tenant he, by the employment of his capital, makes it productive, and then he is rated on his capital, and not the landlord. To strengthen my argument I will read what the Lord Advocate says: "His lordship is equally strong against the notion which we have all frequently heard, to the effect that every tax upon land, or measured by the value of land, is in the result wholly paid by the landlord, although one-half should by law be payable by his tenant. The argument is that the tenant's legal share of the tax, if he is left to pay it, is always taken into account in fixing the rent, and that consequently the landlord must either contract to relieve him of it—i. e., to pay it for him—or be content to accept of exactly so much less rent, so that in the one way or the other he, the landlord, always in effect pays it. It is perhaps presumptuous to challenge as manifestly fallacious an argument which one has heard seriously stated and maintained by very intelligent men. But such, nevertheless, is my opinion of it. The result of it, if sound, is that you cannot possibly tax the occupier of land in respect of his occupation; and as the argument is equally applicable to houses, the importance of it, measured by its extent, is very great indeed. The fallacy of it will appear if you only consider that the same result exactly would follow from a landlord's agreement to pay any other part or the whole of the tenant's expenses on account of his occupation and cultivation of the farm—the cost of seed and labour, for example, or the tax of his income arising from the profits of the farm. The expenses and burdens incident to the tenancy of a farm do not cease to be of that character because

he may bargain with his landlord to relieve him of certain of them, on the footing of paying a higher rent." And he adds: "The argument which I am now attempting to refute will, I think, appear very extravagant when considered with reference to its application to houses in towns; for it implies that the occupiers of houses in towns really pay no taxes in respect of their occupation. The true view, in my judgment, clearly is, not that a lower rent is paid when the tenant is left to pay his share of the taxes, but that a higher rent is paid when the landlord agrees to relieve him, just as a lower is paid when he agrees to relieve the landlord of his share. In either case the value of the relief is paid by the party relieved to the party relieving him. Being persuaded that the argument which I have stated is sound, I must venture to express a hope that landlords' and tenants' taxes will not be confounded, but will always be regarded as quite distinct, and as falling on quite different parties." It is very evident that the Lord Advocate considers there should be a tax paid by the landlord as well as by the tenant, separate and distinct from and independent of each other. The landlord paying on his income derives as owner of the land, and the tenant paying on his income derives as occupier of the land. To show what the feelings of the landlords are as to the bearings of local taxation, I will read you what passed in the House of Commons in April last, when the subject of local taxation was discussed: "Sir Thomas Acland said he must be permitted to explain that the year before last he should have proposed that the education rate be divided between the landlords and tenants, but for an assurance from the Vice-President of the Council that such a proposal would endanger the passing of the Education Bill. It was no fault of his, therefore, that the payment of the rate was laid on the tenant-farmer: it was, in his opinion, a burning shame that the rate should be so imposed." Now, who in the House of Commons would have opposed the resolution that the rate should be so divided? It could not be the tenant-farmers in the House, as, with a few exceptions, they are not represented. I leave you to form your own conclusions. It is very evident from this who now do and who will have to pay all present and all future charges under the name of local taxation, unless we have a change in the manner of levying such tax. I am afraid, gentlemen, you will be tired with this part of the subject; but, having long felt that there has been an irregularity and unfairness in the assessments for local taxation, not only in the exemptions of personal but also of real property from rating, my object has been to put my views before you as clearly as I can, strengthened also by the opinions of others who, having studied the subject, from their greater knowledge, are more competent to form a correct conclusion than myself. It is evident that we shall have an alteration in the law, and my object in bringing forward the subject is not to advocate that the burden may be shifted from one party to the other, but that it should be equally distributed according to the strength of the back to bear it. It has been said by some that it is not right that funded property should be taxed, as when it was first lent some hundreds of years ago to the Government it was with an understanding it should not be subject to taxation. It might have been right to have made such an agreement at the time: it was lent under peculiar circumstances, and obtained with great difficulty. Whatever may have been agreed on at that time is not binding now, as no Government can make laws which, like those of the Medes and Persians, are to be unchangeable: if so, we should never have any alteration, however necessary it may be. We find Acts of Parliament altering and changing laws every day; and if the Government of the country thinks it just and proper to tax property, whatever it may be, they have the power and right to do so. If there was no law by which the poor could claim relief, and they were left to private charity, would not the owners of personal and other property feel bound to come forward, as good citizens, and give of their abundance to their poorer brethren, without reference to the property they own? If so, why should they object to do that with law, which they would feel they are morally bound to do without law? I consider that in all taxation, whether local or otherwise, every person ought to be taxed according to his means, from whatever source they may arise. It is only in accordance with the divine law which says, "To whomsoever much is given of him much will be required," and it should be the duty of all governments, in making laws, to be guided by that precept as much as possible. I believe, gentlemen, it is admitted by all

that some change is required in the assessment of local taxation, and it is for you to consider what that change should be, so that the rates should be levied equally and fairly upon all classes. Sir Massey Lopes's proposition is that the whole charges for administration of justice, and half the charge for police and lunatics, hitherto paid from local taxation, should be transferred to imperial taxation—that is, the Consolidated Fund. Now this, though an improvement on the present law, does not go far enough: it is merely transferring the payment of a certain sum for certain purposes from the poor-rates to the Consolidated Fund, and will be only a relief of 1½d. or 2d. in the pound to the occupier. It does not affect the question of the liability of property to local taxation which at present escapes, and therefore cannot be satisfactory to the occupiers. If this is the only relief we are to obtain, we shall still be subject to new charges. We already have, or shall have, the education rate in almost every parish, we shall have the sanitary and other rates, all of which will fall exclusively on the tenants, and unless there is a full and comprehensive revision, and enlargement, of the area of local taxation, the tenants will be no better, and perhaps worse off than before, as they will be still liable to any new taxes that may be imposed. Some people say that we should have a national rate, and that all payments should be made from the imperial fund, and not from one description of property alone. This plan is adopted in Sweden, where a rate is levied on each taxpayer, in proportion to the property or income tax he pays to the State. One argument used against a national rate is, that it would do away with local self-government. I will read you what Mr. Genge Andrews (who has taken great interest in the subject of local taxation) says on the subject: "He believes the last ditch in which their opponents endeavoured to entrench themselves was local self-government," and if there was one fallacy greater than another it was that of the so-called local self-government. I will ask you who are present who are guardians if you could limit any demand made upon you for the relief of the poor, or any of the duties you are called upon to perform by the Central Board in London. All the power they had was to say whether a poor man should have 2s. and a loaf or 2s. 6d. and a loaf. That was the extent of their local self-government. Then, if they came to another part of the expenditure of local taxation they found that 84 per cent. of the expenditure by the magistrates was simply payments which they were obliged to make under the laws, and over which they had no control. What was the use of saying we were to pay a tax of 16 per cent. for the privilege he had mentioned of deciding whether a pauper's pay should be 2s. 6d. or 2s.? They knew if there was one great despot in this country it was the President of the Poor-law Board. He not only sent out his own orders, but he sent out his agents, and the Board of Guardians were obliged to do what those agents directed them to do. It was said by some that an alteration would not be a benefit to the tenant-farmer, as, if the rates are paid by the landlord, he would charge an increased rent. The Duke of Rutland, in a speech made at Derby, 18th Sept. last (copied from *The Daily Telegraph*), says: "With regard to local taxation, there has been a cry to shift the burdens from the occupiers to the owners; but he would remind the farmers that it would be a mere shuffling of the cards, for their rents would be raised if that were attempted." Now, the Duke of Rutland is quite wrong in his conclusion. There is no shuffling of the cards in the tenant's endeavouring to get a revision of the Poor-rates, whereby each may pay his fair proportion. The tenant does not want to shelve the rates. What he wants is that he should be only called upon to pay what is fair and just, according to his income. I do not think any landlord would take any advantage accruing to the tenant in charge, as that tenant would be assessed as well as himself; and, if he did do so, the tenant would be in a much better position, as he would then know what he had to pay. But, under the present system, he does not know, as every fresh charge on the land is paid by the tenant; and he cannot go to the landlord and ask him to allow it, in consequence, out of his rent. In fact, a tenant's rates may be increased 30 or 40 per cent. during a lease. I hope the tenants will not be deterred from any fear of what the landlords will do. They are only asking for what is just and equitable, and I am quite sure that the landlords, as a whole, when they come to consider the question in all its bearings, will not, because their tenants are endeavouring to place themselves in a fair position, take any unfair advantage.

Gentlemen, I have endeavoured to give you my views on the bearings of local taxation. I believe if there is a fair revision of the tax it will lead to a greater employment of capital and labour by the tenant, as he will then know that whatever improvement he may make on his farm he will be fairly assessed, which is not the case at present. He will not only by his increased outlay benefit himself, but the improvement of his land will eventually benefit his landlord, and, by the employment of more labour, it will be a benefit to the industry of the country. With these remarks, gentlemen, I leave the subject in your hands, trusting it will have an ample discussion, and that you will come to a right decision in the matter. I beg to move the following resolution: "Inasmuch as the present operation of local taxation presses unfairly on the occupiers of land and houses, it is the opinion of this Club that there should be such a revision of local taxation, whereby every description of property should contribute its fair proportion."

Mr. BLUNDELL seconded the resolution. There was no matter in which they were more interested than local taxation, for when they came to look at it it really was a question of a war of opinion between the wealthy and the middle classes, and he called upon the latter to come forward and protect themselves against the war now raging against them by the rich, and to say to the Government—be it what it might, Liberal or Conservative—that they would no longer have the taxes heaped higher and higher and piled up upon the shoulders of the occupiers of land and houses. They had all seen how the original standard of rating had been departed from, and that all sorts of taxes had been piled upon the shoulders of those who paid rates for land and houses. He asked, Why should this be? Was there anything special why the occupiers of land and houses should be thus treated? He said there was not. Suppose he went into a place with a gentleman who had £10,000 in land or houses in the city of London, and a man came into the place and put down a bag of sovereigns to that amount. He wanted to know who was the best off? He maintained it was the man who had the houses and the landed property who had to bear all the weight—the brunt of education—and next would come the sanitary laws. He said there was no reason why the 10,000 sovereigns should not pay a tax as well as the land and houses. He (Mr. Blundell) could do more with 10,000 sovereigns than he could with land or houses to that amount. And he would tell them why. Six years ago he bought a property for a gentleman, but he only lived just long enough to get the transfer completed. He wished to know whether there would be such a hampering and difficulty with the sovereigns as there was with land? The man who had the 10,000 sovereigns would have what was his own, and should therefore bear his fair share of local taxation. Then look at the effect of it. It was not many years ago that they saw labourers' cottages pulled down in all directions in order that the owners of them might not have to pay the rates. Now, what had been the result of that? They found that in some rural districts there was a paucity of labourers' cottages, and the day was fast coming when, if they wanted labour on the land, they would have to build thousands of labourers' cottages, and that would cost a deal of outlay. He asked an owner of property the other day to build some cottages on an estate, but he declined, and said "As long as I keep my money in my pocket I do not pay any local taxation, but if I spend it in erecting labourers' cottages they will be taxed directly they are up." Every pound that was laid out in land paid rates, but while a man had it in his pocket local taxation did not touch it at all. When they came to consider the enormous mass of property that did not pay any taxation whatever it was really alarming. He told them, in a paper he read a year or two ago at that Club, the amount of that which escaped local taxation was estimated at 1,228 millions. And yet this should be fairly and fully charged. This did not include the rentals of land or houses and other things he had not considered, and he thought if they took the total amount of income which escaped local taxation in this country they might put it at 2,000 millions of money. And then there would be the enlarged area of taxation, to which their president had wisely alluded in his paper. It was difficult to compute the difference it would make to the payers of the local taxes. He had been told that they were only seeking to benefit the land and their own interests. He replied that they were not. He said that all property in the country, whether it was real or in sovereigns, should and ought to bear a fair share of local taxation. There was the man who rolled

in his carriage, who was rich and enjoyed his *otium cum dignitate*—was he not interested in the social life of society as much as they were? Why should he wish to pay nothing, and leave the burdens to press all on one class? He asked what right the Government had to impose a tax on one class for the police, education, and other purposes, when those things were not for their special benefit alone? It was not for the benefit of the middle class entirely, but for all, and therefore all should pay. They would find that by enlarging the area of taxation people who now objected to pay would not contribute much more than they did now. With regard to the controlling of the expenses he thought the Government could turn out a scheme which they could put before them, and he could say they would have too much good sense to spend the money where it was not wanted. The great thing for them (the taxpayers) was to see it was fairly collected, and for the reasons he had stated he should have much pleasure in seconding the resolution of the president when he moved its adoption.

SIR RICHARD GLASS had not given the question much consideration lately, but it seemed to him it wanted some mode of application for collecting the tax. It was clear that certain funds had to be collected, and it had always struck him that it was hard to tax the land when so many other things went untaxed. They must go back to Mr. Disraeli's point, which was for indirect taxation, and that all things should be charged to one fund. But this had been objected to. If all was paid out of the consolidated fund, and all property was to be taxed, it would then be made a very simple matter of indeed. However, it was a large and difficult one to deal with, but he thought it was a question which would have to be decided sooner or later. He believed the proposal contained in Mr. Disraeli's budget which was overthrown, was a very good one, but it required a great deal of consideration and ventilation, and it appeared to him that nothing would do but a sweeping measure to do away with that against which there were so many complaints at the present time. He spent a great deal of his time in France, where they had one tax. All the money went into one source, it was paid from thence, and there was but one rate and one collection. There was no doubt any alteration in the tax would lead to individual grievances, and these would continue as long as taxes existed. One payment and one collection would, in his opinion, tend to do away with the grievance that existed more than anything else. With regard to the tenure of land and the paying of the rates that was a bargain which was made with the landlord on taking it. In his opinion the land question would not be set at rest, because when the rates came to be lessened the landlord would say that he wanted more rent. Any difference that was made would fall upon the land, and the landlord would see that he got more in his rent to make up for what he had to pay in rates.

The CHAIRMAN denied that the landlord paid the rates, and said according to Sir Richard Glass's argument the owner of the land, where he had been getting £120 before, would be charging £130, and he would ask if that did not show that the tenant paid the rates?

SIR RICHARD GLASS thought it would be a great thing if they could get the rates more equally distributed all over the country. People who had large incomes should help to keep the poor and pay the rates in small parishes, and where the occupiers of the soil had to pay the greater part of the rates, not from any fault of their own, but from the circumstances in which they were placed. This could be seen in some places, for he knew that in the West of England the rates had been as high as 12s. 6d. in the pound, and the tenants and occupiers of land had to pay them. They could not shut their eyes to the fact that this was a great injustice. He thought there should be some fund in aid to meet such a thing.

Mr. CAREY objected to the term real property being applied to funded property. The funds were a debt, and how they could be looked upon as real property he could not understand. It would be iniquitous to do so. The great point to be decided was how the tax should fall. He believed that property should be equally taxed, and that one description should not be charged more than another. And a question was as to whether the landlord or the tenant paid the taxes. There seemed to be a difference of opinion on the subject, but he agreed with those who said it was the landlord who paid the rates.

Mr. W. C. SPOONER would suppose that two farmers took a farm each of the same value, and they would put the value of

the land at 30s. per acre. Then there came an alteration in the law, and the occupier in the one case paid all the rates himself, and in the other the landlord. Did they think the landlord would pay the rates without charging it on the rent? If the rates were 10s. more that amount additional would be charged on the land. But in the other case, where the landlord did not pay the rates and left it to the tenant to do so, if he gave him a lease for fourteen or twenty-one years, and when half of that lease was expired certain additional charges were made, such as the education rate, he would undoubtedly have to pay the increased charges till his lease expired. He did not think Mr. Warner would dispute that proposition. A great question had been raised that the land should not bear such a large proportion of the taxation as it did at present, and it had been proposed that in future the rates should be divided between the landlord and tenant. That was taken up by Sir T. D. Acland, who was a good friend to the agriculturist, but who brought it forward as an amendment on a subject with which it had nothing whatever to do, and it was looked upon as a "blind" in order to defeat the proposal of Sir Massey Lopes. Sir T. D. Acland used some very strong arguments in order to get it carried, but he would say if there was one man in the House of Commons who came out of it thoroughly convinced that he had made a mistake it was Sir T. D. Acland. He had no business whatever to bring forward the amendment as against Sir Massey Lopes's motion, which had been read by the chairman. If they would take the advice he (Mr. Spooner) had to give them, it would be to be content if they could get what the hon. baronet had proposed. They were sitting there as practical men, and it was not for them to go into vast theories, but to seek to accomplish that which they were most likely to obtain. When they spoke of landed and house property the money invested in houses was of greater value than that invested in land, and therefore those who owned and rented this property were more interested in personal than they were in real property. They might, by doing what was proposed, lead to an increase in the income tax, which would be sure to raise the opposition of the representatives of boroughs and other places in the House of Commons, for if there was any tax which ought to be modified or done away with altogether it was the income tax. The poor rate was an established charge, and should be paid by all means, but if they sought to put an additional poor rate on the owners and occupiers of houses in the shape of an addition to the income tax they would find they would have a ten-fold majority against them. He was opposed to increasing the rates as much as any man and, more than that, he said not one little should be added to them for education, police, or sanitary objects, which were imperial purposes alone. They should not attempt to disturb the old poor rate, which had been established since the time of Queen Elizabeth, for they were told that the poor belonged to the land; it was the labour of the poor that rendered land valuable, and it was right that the land should be the poor man's security against indigence and old age. Let them rather do what they could to support the reasonable motion of Sir Massey Lopes. He did trust they would bring their own common sense to bear on the matter, and not be led away by any delusive theories, but support the proposition the baronet had brought forward; and, while he could not agree to all the proposals contained in the paper read by their worthy president, he should have no objection to support his resolution. He thought that any vague proposition to rate the funds which only yielded three per cent., or property which was here to-day and gone to-morrow—to attempt to put any local rate upon this would be vain and futile. Mr. Warner considered that all money was real property, but this was only a legal term, which, whether it was right or wrong, was a point which was not worth argument. With regard to the division of the rates between landlord and tenant he thought what the Duke of Rutland had said was perfectly true. They should be satisfied with the present arrangement, and not invite any of those disturbing causes which would come in and destroy that good feeling which now existed so harmoniously. On this point he would say "Let well alone," instead of making alterations which would lead to no benefit.

Mr. JAMES WITHERS quite coincided with the chairman. The question of local taxation was most unjust now, and they should not cease to move in the matter until they had got it altered. He thought the rates were paid by the occupiers of the land, and not by the owners, and mentioned a case that had occurred in his own parish in order to show that this was

so. With regard to what Mr. Spooner had said the very fact of a thing being established so long ago as 300 years proved that it was not applicable to the age in which they now lived. It was a question which affected both landlords and tenant-farmers; they could both assist each other, and he would say let them be determined not to rest until they had secured for themselves what was fair and just in the shape of local taxation.

Mr. C. HOLDAWAY said it was important that they should distinguish between local and imperial taxation. The poor rate was a local tax. But things had been placed upon it which never ought to have been put there at all. Since the time of Elizabeth land had been bought and sold with the poor rate on it, but certain other charges had crept in—such as the education rate and other things, and now would come the expenses of the sanitary authority—these were things which should not be paid out of local taxation, and therefore he thought personal property ought to be made to pay a fair share of what had taken place since their own time. Such things as education should be paid for imperially, for it was very hard that a man should have to pay for the education of his own children, and also towards that of the children of those who were as well off as he was himself. He quite agreed with Sir Richard Glass—that there should be only one tax. That would be something like indirect taxation, and if that was carried he would make Sir Richard the Chancellor of the Exchequer, and then he believed they would have the work carried out. He (Mr. Holdaway) could not consider that the rates were all paid by the tenant, for they might make an agreement, and each would take care of himself.

Mr. JOHN GATER thought the tenant-farmer should be careful as to how he moved in this matter, because he might find out in the long run that he had more to pay than he did now if he threw the taxes more upon incomes.

The Rev. J. M. LEE thought the question before them was not as to whether the landlord or the tenant paid the rates, but if there was any portion of property which ought to pay, and at present escaped. It seemed to him wrong that things which were for the general benefit should be paid for by local taxation instead of imperially, and he did not see why that should be so. He therefore went in with the views expressed by their worthy president—that personal property should pay as well as real property. He supposed he was the only one present who had the felicity and happiness of paying both ways, for he was assessed on the tithe-rent charge and his income as well.

Dr. ORSBORN agreed with what had been said by many speakers, and if there was a thing which rested more heavily on one class than it did on another, and which was felt to be a real grievance, then they should endeavour to get it removed as soon as possible. He thought a little reflection would soon show that the tenant paid the rates, for in these days of competition the landlord had the advantage over him. He could not submit to the opinion expressed by Mr. Spooner, for if they were to adopt it they would remain in the same state as they had always been. There was an injustice with regard to this local taxation, and it ought to be remedied.

Mr. BARFORD quite agreed with one argument that had been advanced—and it was that it made very little difference who paid the rates, the landlord or the tenant. The bone of contention appeared to be that they were not equally divided, but pressed on one class alone.

The CHAIRMAN still contended the tenant paid the rates. He thought both landlord and tenant should pay them. With regard to the poor rate, it was charged on the land, and the landlord never paid it while he had a tenant. Mr. Spooner wished them to support the proposal of Sir Massey Lopes, which was that the cost of the administration of justice, the police, and lunatics should be paid by the country, and not out of the local rates, which would involve two millions; but his object was that all kinds of property should pay its fair share. Mr. Holdaway had said that they should settle the payment of the rates with the landlords, who would take care of themselves, and he thought he knew enough of Mr. Gater to say that he was one who would take care of himself. And then the proposal of Sir Massey Lopes would not affect the liability of property to taxation. They might get the proposal he had advocated, but the taxation would go on just the same as at present. What he (the chairman) contended for was that all property, whether real or personal, should be justly and fairly rated. He proposed "That, inasmuch as by the present operation of local taxation it presses unfairly on the occupiers of lands and houses, it is the opinion of this club that there should be such a revision of local taxation whereby every description of property should contribute its fair proportion."

Mr. BLUNDELL seconded the resolution, which was agreed to unanimously.

A vote of thanks was given to the chairman.

LIMERICK FARMERS' CLUB.

THE SUPPLY OF COAL.

At the half-yearly dinner, Mr. Jonathan Bruce (Miltown Castle) in the chair, Mr. W. P. MAUNSELL read the following paper on The Coal Famine in Connection with Agriculture:

Although the coal famine is strictly more a general than an agricultural subject, yet it is one in which all connected with agriculture have so deep an interest that I thought it would be of public benefit to have it ventilated, and to hear the various suggestions which may be brought forward for its remedy. The coal famine affects agriculture in various ways, absolutely and relatively. The first and most injurious effect is in raising the price of fuel on the labouring population; next, the increase of price on all farming implements and machinery; and lastly, the effects which strikes and diminished wages and diminished production of money will have on the price of butter, corn, and farm produce of all kinds. And this will open up one of the greatest questions of political economy—the relations between capital and labour; and I think it can easily be shown that no class can combine for the selfish object of raising wages merely for their own benefit without injuring all the rest of the working population, and, finally, themselves; for, as wages rise beyond a certain limit, the cost of all articles rise in proportion, and the increased

wages purchase less than the lesser ones did, and this will react upon the farming classes in this way, that when any article of necessity, such as coal, costs, as now, double what it did formerly, the price of butter and farm produce must decline, as the entire population will have less to spend on it, and the labourers on strike must deny themselves it entirely. The first question, then, which presents itself is to consider the increased price of fuel as it is, and as, I fear, it will always in some degree be, and what steps can be taken to counteract it; and this brings me to the first and most important part of the subject—economy in the use of fuel. At the present moment, of the millions of tons of coal burnt in manufactories, steamboats, ranges, open fireplaces, and fixed boilers, often one-half, and sometimes three-fourths, is absolutely wasted and lost. This applies more especially to domestic use, a very large and increasing one, in which it can be easiest shown. Fire, as we all know, radiates heat equally in all directions. A fire placed in the centre of a room gives equal heat at the north, south, east, and west. Now, our habit in the United Kingdom, where fuel has always been abundant, is to place the fire in the wall of one side of the room, so that, if in the north wall, all the people south of it get one-fourth of the heat

and the other three-fourths go into the wall—to the north, east, and west, or up the chimney. In town houses, which are built in a row, the waste is less, as each house warms his neighbour's in a degree. I have known a press in a town house up against a wall, with a fireplace outside in the next house, where the clothes were actually hot; but if we call the owners A and B—if, then, A did not warm his own clothes, but B's by his waste, and if A's was a corner house and had no one to warm him, of course he was a loser. But in a country house or a labourer's cottage, where the flues abut on an outside wall, as is often the case, the loss is absolute to everyone. Now, with regard to manufactories, all thick, black smoke, which is only gas and carbon in an unconsumed state, is absolute waste, and destruction to the buildings, gardens, trees, and grass around. Again, in all those manufactories where great heat is necessary, such as glass-blowing, annealing, &c., a great part of the heat is converted into an involuntary Turkish bath for the workmen. It is evident that this heat could be utilised in some way. I would be the first to allow that the manufacturers know their own business best, did I not know that, as a rule, they set themselves against all improvement when efforts were made to abate the smoke nuisance; and from what I saw done by Doctor Barter, at Blarney, when he built the first Turkish bath in Western Europe, his first bath used to burn so much fuel that in a public establishment it would cost about five shillings a-head to make it pay, and step by step he reduced it, until he could give as much heat with a quarter as before with a ton of coal. This may seem outside our subject, but in reality it is not. The less coal that there is consumed, the cheaper it will be, and all manufactured articles of iron necessary to the farmer will be cheapened; while the more it is wasted, the more he will have to pay for all these manufactured articles, and the less the consuming public will have to pay for his butter, meat, and farm produce. Waste is one of the great faults of our country; it has descended to us from a period when the common necessities of life were abundant, and the population small, and not accustomed to those luxuries which all classes now have come to regard as necessities. I will now turn to that part of the subject which touches ourselves as far as we are manufacturers of meat and butter, and I would again draw the attention of the farming public to the great waste that occurs in fixed stone boilers, if there are any such still left in the country. Nearly ten years ago I brought this subject before the public in a letter to the newspapers, in which I stated that where a dairy of thirty cows cost about £20 a-year for fuel in burning turf in a fixed boiler, the same work could be done at £5 a year by burning slack in a portable iron boiler. In this room, at the first dinner of this club, the late Mr. John Boucher, of Frankfort, stated publicly, and it is now published in one of our pamphlets, that by means of that letter, and the information I had given him, he had saved £15 a year. At that time a 30-gallon iron boiler cost £5, and now so much are they used, that in spite of the rise in iron, one of the same size can be procured at Mr. Boyd's, in William-street, in this city, for £4, with cover, flue, and all complete. I mention the name, because Mr. Boyd has them now cheaper than any other house in the city. The next thing I would draw attention to is the general waste of fuel in ranges and open fire-places of all sorts, and how it can be checked without discomfort and injury to health. I have remarked with astonishment that in all letters and discussions on this subject the invariable rule has been to select one or two ways of burning fuel, prove them both bad, and then introduce the writer's own hobby, which generally was quite impracticable. The general course has been to condemn open fire-places as wasteful, close stoves as unwholesome, and then to start some idea by means of which fuel can be economised in the open fire-place or range, losing sight of the obvious and natural medium between both—the open stove. I have been studying the subject lately, and I can assert that it is perfectly possible to combine a fire-place which shall give all the heat of the stove and all the comfort and health of the open fire-place, and at a price not dearer than the usual register grate for the gentleman's house, and for about twenty or thirty shillings for the labourer's cottage. Messrs. Smith and Wellstood have patented an open stove grate which appears to me nearly to combine all the requisite requirements of a grate to supersede the wasteful grate in modern use. It consists of a cast-iron front, with an elliptical niche in it, which takes the place of and much resembles an ordinary register grate without the bars or fire-

place. In this niche fits a stove, which projects only six inches into the room, and which can be made closed or open at pleasure, and which regulates the consumption of fuel to an ounce without slacking the fire, and which presents to the eye all the appearance of an open ordinary fire-place, and at the same time radiates through the room all the heat of a stove. The price of one of these complete is about £3 10s. or £4; that is about the price of an ordinary register grate suitable for a large dining-room or library. I need scarcely mention the American cooking stoves, which are now coming into common use, which will do for about a quarter of the expense all the cooking now performed by the expensive fixed ranges; the comparative cost price being £10 or £15 for the American cooking range to £25 or £30 for the fixed range. I do not know whether there is a stove yet invented specially for labourers' cottages which would combine cheapness, strength, economy of fuel, and a sight of the fire, which I hold to be essential for comfort and health; but I should think there would be no difficulty did the demand for such exist. There is one of them called the "Pioneer," of Smith and Wellstood's, evidently intended for emigrants, which fulfils most of the conditions. It is a long, strong, narrow, iron range, with an oven, and a circular hole on the top for boiling. It could be thrown open, and show the fire, and, except for the novelty, would, I think, be better than the wretched fireplace on the floor, which neither cooks well or gives out heat, and wastes such a quantity of fuel. This burns either wood, turf, or coal, and is as strong as a farm boiler. There are several other of these cooking stoves, whose only fault is that they are too delicately constructed for the rough use of a labourer's cottage; and I have no doubt but if the demand existed, they could make for about twenty or thirty shillings an open range that would bake, roast, and boil, and show an open fire. I have had a small, common stove, costing twenty-five shillings, in my own office for the last year, and have found the greatest economy and comfort; but I was obliged to give up a closed one, as I found it gave me a headache. I have now, gentlemen, brought before you briefly all the practical details which I could bring together on so short a notice. I will now briefly dwell on the other parts of the subject, which ought to engage the attention of all thinking men who are anxious for the welfare of the country and of the working population. These are—Irish coal, utilising peat fuel, and the mischief that must ensue from this new system of universal strikes, and the battle between capital and labour. With regard to Irish coal—in spite of the flattering accounts which are now published with regard to the Irish coal-fields—anyone acquainted with the geology of Ireland must come to the conclusion that except during the present famine prices they cannot be relied upon with any certainty. The geological facts are these: Ireland, at some remote geological period, perhaps millions of years ago, did possess rich deposits of coal stored up under the ground as in England; but, unfortunately, during some of the upheavals, the coal has been swept away, and nothing left but what are called "the lower coal measures," which underlie where the true coal exists. Now, in many parts of Ireland we have the coal measures—that is, sandstones, slaty shales; these all exist in the county Clare, all about Kilkee; but, unfortunately, the coal has all been swept away, and the shales on which it is always found only remain. The county Limerick, as we all know, has in abundance the mountain limestone with its innumerable fossils; but this also is part of the lower coal measures, and again the upper or true coal measures have been swept away. The little coal that is sometimes found is impure, and so full of sulphur as to be of little use, and where any true beds of coal exist they are in very thin seams, so as scarcely to pay (except at an exorbitant price) the expenses of working them. I think then that, unless the present famine price lasts in England, that we may take it for granted that we cannot rely very much on Irish coal, except as a temporary expedient. The same may in a degree be said of the "utilisation of peat fuel," which will, I hope, confer a temporary, if not a lasting benefit on Ireland. There has been a commission lately sent to inquire into the manufacture of this in the other parts of Europe, and we may hope that, by means of expelling the water out of our turf by hydraulic pressure, and rendering it hard and heavy like coal, we will not only give for a time an increase of fuel at a more moderate rate, but also bring, when the peat is exhausted, a quantity of land into cultivation which is now waste. There is another important view in

which this presents itself to me, but as it is not connected with agriculture I will not dwell on it—which is, that as fuel for manufacturing purposes becomes dear in England, it holds out a prospect of competition in a country like Ireland, where there is numerous water-power, which would be quite as useful as power produced by coal, except in the manufacture of iron. In Scotland the entire river Tweed is covered with woollen mills, worked by water, which produce the cloth which we all are so fond of, which now has taken the name of the river "Tweed." And now I wish heartily that the most important side of this question could be brought before every poor labouring and working man in Ireland who will suffer from the want of fuel this winter—that the dear price of it, and almost every other article of common use, has been principally brought about by the unnatural contest between capital and labour, which has resulted in strikes, and the rise in fuel, and every manufactured article in which fuel is used. I wish that our working classes could be taught some of the simple elements of "political economy," and they would find it a much more profitable article than "political agitation." One simple rule is this, that whenever wages are raised beyond a sum at which the capitalist and manufacturer can make a certain profit for his risk, skill, and capital, that the manufacturer must cease to exist and the labourers be thrown out of employment. I can quote a remarkable example of this in the Thames shipbuilding trade. Some years ago this employed hundreds of people, and gave food to thousands; but as the wages could not be quite as high as the artisans required, they struck for higher. The consequence was the manufactory had to be given up; the distress of the east end of London resulted, and the greater part of the artisans and their families had to emigrate, and the entire of the iron shipbuilding trade has been transferred from London to Greenock and Glasgow. The fable of "The Body and its Members" is just as applicable at the present day as when it was spoken some two thousand years ago. All the members of the body declared that the belly was a capitalist and an aristocrat; that it did no work, and got all the profit. The arms said that they worked to get food for it, the legs walked and ran for it, the head thought for it, the mouth chewed for it, but it alone did nothing. Consequently they all struck work and remained idle; but the consequence was they shared the fate which they intended for it. When the belly got no food, the arms, legs,

&c., all alike starved and died for want of nourishment, which used to be sent back to them in an imperceptible stream by the much abused belly. The fable is still true of our own day. The belly is the capitalist, who seems to get everything and do nothing; all the other limbs work for him; but he sends out in the shape of wages the life-blood of the community—the stream which equally nourishes and supports all. Now, all this applies to us farmers and landlords; if wages rise beyond the sum at which a profit can be made, so as to pay the farmer for his trouble, risk, and outlay, that system of farming which employs most labour must, of necessity, be given up, and grazing supersede tillage, until the price of corn and bread rises so enormously that the labourer can buy much less with the large than he did with the small wages. I am decidedly in favour of good wages, if the labourer will give for it good work; but the great misfortune attending the present strikes, which has caused in a great degree the coal famine, is that the labourers object to work more than a few hours a day, and will not draw more than a certain quantity of coal to the pit's mouth, in consequence of which everyone, rich and poor, in Ireland must submit this winter to coal at famine prices. I have no doubt that there is a good deal to be said on the other side, and that strikes have only been resorted to as a wild act of justice to obtain necessary redress; but in all cases I think they are to be deplored; and I sincerely hope that in Ireland we may never resort to such a suicidal process to settle our differences; and I sincerely hope that the present evil may be turned to some good, and may draw the attention of the rich to the improvement in the dwellings of the labouring classes, and the poor generally. It is one of the great problems of the day how, without degrading the poor by giving them charity, we may put them in the way of being independent and comfortable. It is here that I think the capitalist should come forward. It would be perfectly possible to house and warm the labouring classes infinitely better than they are, while the capital so employed would return 5 per cent. If the present coal famine tends to this, only to check the waste in coal, it will, instead of a misfortune, be one of the greatest blessings that ever came.

Mr. CASWELL stated that in England the coal miners were now trying to get coal at a great depth below the lower coal measures, and that if this was the case there might be available coal in Ireland.

HIGHWAY MANAGEMENT.

At the first meeting of the season of the Ledbury Chamber of Agriculture, the Rev. E. Higgins in the chair, Mr. BAL-LARD read the following paper.

A large proportion of the real property of the country is occupied by tenants who hire the use of it from year to year. The value of real property is increased by improved roads and other means of transit. The owners are the parties principally benefited by such improvements, the tenant receiving advantage only so long as his tenancy lasts. This being so, it must be unjust to make a tenant bear the expense of any improvement lasting longer than his tenancy. A Highway Board is principally composed of tenants. In the Ledbury district, for instance, where there are twenty-two elected waywardens, only two of them are owners, the remaining twenty being tenants. Their interest requiring good roads only so long as their tenancy lasts; consequently, the cost of all improvements of a durable or permanent character is naturally and fairly avoided. With such a system great and lasting improvements of a durable or permanent character are not likely to be effected. The managers of the roads should be the owners of the property in the district which the roads intersect. The owners should bear the expense of repairs and improvements, when, as a matter of course, rents accordingly would be agreed upon between landlord and tenant. The tenants by this change would, as they

should, pay increased rents, and the injustice of forcing them to find capital for improvements lasting longer than their tenancy would not exist. Moreover, a Board constituted of the proprietors of property would be likely to effect extensive and permanent improvements that under the present system can never be expected. Money may be borrowed for improvements of roads, provided the money so borrowed be repaid in twenty years. Though this arrangement lessens the hardship on the tenant, by relieving him of the evil of finding all the money at once, yet still the tenant has to provide all capital and interest for all improvements as well as for repairs. The present practice of charging the expense of roads to the parish they are in is good and just, because the highways are generally for local use, and each parish has the power of checking unnecessary outlay, and has a direct interest in the practice of economy. Some persons propose that the cost of the roads should be borne by a district rate—that is, that the contributions of all the parishes in a district should be put to one fund, and that the repairs of the roads of each parish should be paid for out of such funds. With such a system a waywarden would see far less reason for curtailing expenditure in his parish, and would rather advocate greater outlay and improvements entailing expenditure, knowing that only a small proportion of the cost would fall on his parish. Of course there would be a jealous scrutiny by those waywardens not interested

in any proposed improvement or additional outlay benefiting a particular parish or property; and opposition would arise that would prevent improvements that would probably be carried out if the cost were borne by the parish, which would receive the main advantage of such improvements. This would arise from the fact that the parish roads are principally for the use of those whose property they intersect; that the residents on the sides of the road are those who use it most, and that others residing at a distance make scarcely any use of such road. To satisfy oneself on this point, we who live in the country need only consider how little we use the roads of our adjoining parishes, and as to those roads in parishes eight or ten miles away why we might almost spend a lifetime without using them, and how little one is interested as to their state whether good or bad! On well considering this matter, it will be evident that the right way is, as at present, for each parish to pay for the repairs and improvements of its own roads. The only deviation from this rule should be in the case of turnpike roads that have been turned over to the parishes; such roads generally lead from town to town, and are not for such a strictly local use as the parish roads, and therefore the cost of such is more fairly charged on the whole district. It may be urged in favour of the present system of occupiers paying for the roads, that tenants are required only to keep the roads in repair. If this were so there would be no reason to complain that they were required to expend their capital for the benefit of others, but it is evident that more is required than merely to keep the roads in repair. The roads are improved, and since the introduction of the highway districts the increased expenditure in endeavouring to improve the roads has been, and still is, very great. The work is of that description that it would be almost impossible to keep a correct account of the proportion of the expenditure for repairs from that paid for improvements. Even if it were possible to do only so much to a road as would keep it in the same state without improvement, no one would consider it desirable, and any expenditure for more than this the tenants cannot be fairly called upon to provide for. No one interested in the improvement of the country, no owners of real property, should be satisfied with the highways as they are at present; very great improvements are necessary, and might be carried out profitably if the increased value such improvements would afford to property be taken into account. To go on in the present way of business is very costly. The lines of roads or lanes should, in many instances, be altered. In hilly countries their surfaces are in many places far below the level of the land on their sides. They are generally the old tracts leading from farm to farm, or from field to field, and have for ages been patched up with a little stone, sparingly laid on from time to time, to keep them passable, no proper formation for a bed of stone ever having been made, and no provision for drainage. In deep and narrow parts drainage would be very difficult and expensive, and the cost of keeping such parts in repair is very great. It would be more economical to give up attempting to make good roads in many of these deeply-excavated parts, and make new roads high and dry. With a clay soil such as is general in Herefordshire, a thick bed of bottom stone is necessary, or in wet weather the wheels of heavy carriages press the thin layer of stone down, and it mixes with the soil. The under bed of stone need not be of the hardest and most expensive kind broken as is necessary for the surface; but in the present way of repairing, the costly broken stone is laid on the roads where in some parts there is very little except the clay subsoil, and if ever a sufficient depth of stone is obtained by these occasional coatings, it will be done at great and unnecessary cost.

The CHAIRMAN thought the whole gist of Mr. Ballard's paper was that the whole of the rates should be paid by the landlords, and that the burden of maintaining the roads should be thrown upon them. What Mr. Ballard had sketched out he thought would be most expensive, and at the same time unfair. He thought it would never answer to throw the rates upon the landlords, and to allow the waywardens to have the handling of the money.

Mr. BALLARD: I think you did not quite understand me. I said the landlords should take care of the roads, and not the tenants.

The CHAIRMAN: Then by that you would do away with the local government?

Mr. BALLARD: Yes, and allow the landlords to look after the roads.

The CHAIRMAN: Then in this district, for instance, two or three persons would have the management. I don't think that system could ever be adopted. Besides, if the landlord had to repair the roads, he would have to raise the rents of the tenants—in proportion to the outlay in the improvements.

Mr. BALLARD: The landlords would have the benefit and the use of the roads, and the advantage of their being in good repair.

The CHAIRMAN: But carts don't cut the roads so much as waggons, and it is farmers who use them most with their waggons, and it is only fair that they should contribute to their being kept in good repair for the time being. Tenants used them most, and they do not frequently change, and therefore they should maintain the roads. If a tenant hauls four or five tons over the roads, it certainly cuts them up a great deal more than light carts or carriages. The question you (Mr. Ballard) have brought forward is a very extensive one, and I entirely disagree with it; you will excuse me for saying so. Farmers certainly have the use of the roads the most, and they certainly should have the handling of the money for keeping them in repair; it will never do for the landlords to have the handling of the money for the improvements of the roads. I think it a large question, which we can hardly deal with here. Who is first of all to pay for the making of the roads? I cannot agree with you in the principle that the landlords can do it. I am very much in favour of a district rate. Although we do not go twenty miles off with our waggons, we certainly traverse our own immediate districts a great deal, and if we had a district rate we should not have so many accounts to keep, and I think we could manage the roads better. With respect to making the roads, I know Mr. Ballard knows how to make a road better than I do, but I cannot agree with him as to the paying for it, as it is very expensive.

Mr. BALLARD: I understood this Chamber was constituted for discussing any subject, whether political, agricultural, or otherwise; and to express our opinion as to the desirability of changing the law. I understood it was so; if it is not, I am quite out of order.

The CHAIRMAN: I don't mean to say you are out of order; but I think it is such a large question that it is not in our power to grapple with it.

Mr. BALLARD: That is the very reason why I should stick to it the closer.

The CHAIRMAN: I am entirely opposed to you. I don't think it would work well at all. I think it is entirely contrary to the whole system which has been adopted for centuries, and I don't think it is possible to entertain a system of that sort with the hope of getting the roads into a thorough state of repair.

Mr. BALLARD: You will never get good roads under the present system.

A general conversation ensued as to the practical way of forming the foundation of a road, and the cost of making one which would render it substantial.

The CHAIRMAN said Telford's system was undoubtedly the best; but he could not understand where the money was to come from to make roads upon that principle. He was sure they were much cheaper to keep in good order afterwards than under the present system.

Mr. BALLARD urged that that point would rest entirely with the proprietors if they had the control of the roads. If they improved the approaches, they would certainly increase the value of their farms.

The CHAIRMAN could not see that they would improve the roads by doing away with the local governments.

Mr. BALLARD said he did not expect that the new road would be at once accepted by all parties. But no doubt it would find its way into the newspapers, and then people would have an opportunity of considering the question, and then they would be better able to discuss it at a future meeting if it were brought forward.

The CHAIRMAN proposed that the Chamber receive the paper.

SALE OF THE KEIR SHORTHORNS.—The annual sale of Shorthorns and Leicesters, and horses, belonging to Sir William Stirling-Maxwell, Bart., was held at Keir farm. The highest price paid was 51 gs. for Roan Butterfly, a heifer of the Butterfly blood. The Clydesdales realised prices considerably above market value.

TENANT-RIGHT.

At a general meeting of the Northamptonshire Chamber of Agriculture at Wellingborough, Mr. Pulver in the chair, the following report was read by the secretary, Mr. T. J. Adkins:

Your committee have given their best consideration to the subject of compensation for unexhausted improvements, with a view of reporting to you how far, in their opinion, further security to tenants is required, and in what direction it appears to them discussion may lead to the provision of a remedy. As the several chambers of agriculture throughout the country are now discussing this subject, and the circumstances of different districts, as well as the customs which have grown out of those circumstances, vary materially, your committee do not think it desirable to travel beyond their own county in their consideration of this matter, as, at the meeting of the Central Chamber, the representatives of the different chambers will doubtless bring forward the fullest information respecting the custom of their own districts. Your committee believe that it is very exceptional to let farms on lease in this county, and that although there are many farms let on yearly agreements, some with a schedule or allowance for unexhausted improvements, and others which refer such claims to the custom of the country, a vast number of farms are held under annual tenancies, subject, as to entering and leaving, to what is called the custom of the country. With regard to leases and agreements, with schedules as before mentioned, your committee consider that such cases are excluded by special contract from their consideration, although a schedule of allowances, recommended by this Chamber, may probably be inserted in the future in documents of this character. It remains, therefore, only to see what the custom is, and how far it metes out fair and equal justice between landlord and tenant. The custom of Northamptonshire is very simple, and tolerably uniform, except towards the boundaries of the county, where the customs of adjoining counties have partially crept in. This applies to the Lincolnshire and Buckinghamshire sides of the county, where a heavier or more liberal Tenant-Right to a small extent exists; but although the Leicestershire custom gives compensation in cases of unexhausted oilcake and draining, the river Welland, which divides the counties, seems to have stopped the flow of liberality in our direction. All that custom (which from long usage and habit constitutes a legal claim) now gives in Northamptonshire is payment for acts of husbandry, or work done, such as

ploughing, sowing, scuffling, &c., unless it is proved that a tenant entered in a different way. Your committee feel that so limited a scale of allowances may, and no doubt often does, act unfairly in cases of an improving tenant leaving his farm under circumstances which could not be foreseen, and, in cases where they are foreseen, leads to the impoverishment of farms during the latter part of a tenancy. Your committee deprecate in a county like this, which is of more than average natural fertility, any heavy or complicated system of allowances as being unnecessary, and disadvantageous to tenantry from its locking up capital. They, however, believe that a fair and moderate scale of allowance would be advantageous both to landlord and tenant, and, beyond that, to the community at large, as tending to the prevention of that exhaustion of farms which is now a source of incalculable loss. With these views, your committee have drawn up the subjoined schedule of allowances for the consideration of the Chamber. They do not consider it desirable to resort to any Parliamentary means of enforcing such claims, but would rather see, through the influence of the Chamber of Agriculture, such schedules, applicable to different parts of the country, take the place, and, by common consent, become as binding as existing customs now are. SCHEDULE.—Oilcake: One-half of the sum expended during the last year of tenancy, and one-sixth of that of the preceding year to be allowed; the outlay upon which the allowance is to be made not to exceed £1 per acre on the arable land. Artificial manures—bones: Quarter of the sum expended to be allowed yearly for four years. Lime: One-seventh to be allowed yearly for seven years. Guano and other artificial manures: One-half of the amount expended on the root crop during the last year of tenancy to be allowed. Draining: If done by the tenant, with the consent or under the supervision of the landlord, which consent or supervision shall be considered to have been granted or exercised if the tenant has given written notice to the landlord of his intention to drain, compensation shall be as follows: If done entirely by the tenant, one-eighth to be allowed yearly for eight years; and where the landlord finds the tiles, one-fourth to be allowed yearly for four years. In no case is carriage to be included. Ploughings, sowings, scufflings, &c., to be allowed for with existing customs.

After some slight discussion, the report was adopted.

LAND TENURE REFORM.

A meeting has been held at Leamington under the auspices of the Land Tenure Reform Association, when there was a very large attendance. Dr. Slack presided.

The Hon. E. LYULPH STANLEY said the Association was started rather more than two years ago in London, with the end in view of promoting improvements in land tenure, and the laws relating to it. He attributed the present poor condition of the agricultural labourer to the unwise laws relating to land tenure. The Association claimed for the benefit of the State the interception, by taxation, of the future unearned increase in the rent of land (so far as the same could be ascertained) which was continually taking place, without any effort or outlay by the proprietors, merely through the growth of population and wealth, reserving to owners the option of relinquishing their property to the State at the market value which it might have acquired at the time when the principle might be adopted by the Legislature. The value of land might be increased at any time by the thrift and industry of the person who occupied it, and he maintained

that the increase ought not to go into the pockets of the proprietors, who had done nothing to cause it, but it should be taken by the State, and applied for the general good in the diminishing of taxation. This principle had been adopted in India, and had worked admirably. He strongly condemned the laws of primogeniture and entail, and argued that the same law should be made to apply alike to the landed proprietor and the personal property of the man of business. He pointed out that the land was not liable to probate duty or succession duty. This was most unfair, and ought not to be longer tolerated. One great object of the Association was to promote a policy of encouragement to co-operative agriculture, through the purchase by the State from time to time of estates which are in the market, and the letting of them, under proper regulations, to such co-operative associations as afford sufficient evidence of spontaneity and promise of efficiency. It was very desirable that greater facilities should be given for the adoption of co-operation in rural districts. The Association wished to pro-

mote the acquisition of land, to be let to small cultivators on conditions which, while providing for the proper cultivation of the land, should secure to the cultivator a durable interest in it. It would be left to the discretion of the labourers as to whether they should work together in threes or fours on a piece of land, or separately. If three men co-operated the Association would be glad to see them do so, if it resulted more to their advantage than working separately. The great object of the Association was to place the labourers in such a position as that they should not be entirely dependent on weekly wages. The ninth article of the Association stated, "That while it is expedient to bring a large portion of the present waste lands under cultivation for the purposes and on the principles laid down in the preceding articles, it is desirable that the less fertile portions, especially those which are within reach of populous districts, should be retained in a state of wild natural beauty for the general enjoyment of the community, and encouragement in all classes of healthful rural tastes, and of the higher order of pleasure; also in order to leave to future generations the decisions of their ultimate uses." There was a great deal of waste land in this country which might be cultivated with advantage, and thus the value of the country might be increased, whilst the inhabitants would be rendered more comfortable and happy. There were, on the other hand, spots which, from their historic interest, ought to be preserved (Hear, hear—A Voice: "There is some waste land kept for rabbits to feed on"). The question of the condition of the agricultural labourer did not come strictly in the programme of the Association, but they were deeply interested in his condition. Some people said they had included too many things in the programme. They had not said anything about Tenant-Right in the programme, but they felt that they must have it. As to the relation between the farmer and the labourer, did they suppose that the farmers would not be able to pay much higher wages if they had some kind of security for the capital they invested in their land, or if so much of their land was not taken up in feeding game? The Association wanted to make the farmers as independent as other men were; and they wanted them to learn that cheap labour was not always good labour. There were one or two things which would do more, perhaps, to improve the condition of the

labourer than an increase of money-wages. He might have an allotment, or, if they liked, enough ground to enable him to keep a cow. He urged the importance of self-help on the part of labourers. Before they thought of having a cow, they must have sufficient money to buy one. He did not suppose that, if all the farmers of Warwickshire offered a cow, and sufficient land to keep it upon, to all their labourers, more than one in 100, or, he might say, 500, would be able to find £10 or £15 to make a start with. In conclusion, he moved, "That the rights of landed proprietors, which, being the creation of law, can only be sustained as means to the general good, are so interpreted in existing legislation that this object is greatly sacrificed to the wealth and importance of a class; and that the law of landed tenure, and the practice of Parliament with respect to the land, require such alterations as may bring them back to their legitimate purpose."

Mr. CREMER seconded the proposition. He enlarged on the following reasons why he thought the present system of land tenure needed reform: 1. The existing system produced high rents and low wages; 2. It generated luxury and extravagance on the part of landowners—squalor and wretchedness on the part of land tillers; 3. The system had been the means of keeping out of the means of cultivation millions of acres of land, and devoting millions more to the breeding of game instead of to producing food for the people; 4. The system had been the means of imperfect cultivation from the desire of landlords to maintain their political power and from a want of knowledge and capital on their part.

The Rev. F. S. ATTENBOROUGH proposed the following resolution: "That this meeting pledges its hearty support to the Land Tenure Reform Association in its efforts to secure a settlement of the Land Question in the interests of the people." He dwelt at some length on the following three clauses of the Society's programme, of which he expressed his hearty approval: "1. To remove all legal and fiscal impediments to the transfer of land. 2. To secure the abolition of the law of primogeniture. 3. To restrict within the narrowest limits the power of tying up land." Mr. H. Taylor, Secretary of the National Agricultural Labourers' Union, seconded the proposition.

The resolutions were carried.

A STUD COMPANY.

Certainly never did the agency of a Company promise better, as a means for the public good, than that recently established in Lancashire. There is so much example in that which has already been accomplished, the project so far has been so legitimate a success, that I am induced to give here a glance at its origin and object. From the official note-book of the Company, as kindly placed at my disposal, it appears that the efforts of the Royal North Lancashire Agricultural Society, and the Lytham and Kirkham Agricultural Society, to induce good thorough-bred horses to come into the district of the Fylde by offering a premium of £50, not having produced a satisfactory result, it was thought expedient by those who felt an interest in the subject, to ask the landowners and other gentlemen in the neighbourhood to combine in raising a sum of not less than £500, in shares of £25 each, for the purchase of a really good thorough-bred sire. The Rev. L. C. Wood accordingly brought the subject before the notice of the principal landowners, and the following gentlemen at once consented to aid the proposed scheme by taking shares, viz.: Lord Derby, 4 shares; Colonel Clifton, 4; Mr. J. H. Miller, 4; Mr. T. Townley Parker, 1; Mr. C. Addison Birley, 1, Mr. Leyland Birley, 1; Captain Jameson, 1; Mr. T. T. Langton Birley, 1; Hon. D. B. Ogilvy, 1. This was termed the Fylde Horse Breeding Company, and in due course, as will be seen from the following further minutes, the one led on to the launch of another, distinguished as the Fylde Cart-Horse Breeding Improvement Company: In the year 1868 a Company was formed for the purpose of improving the breed of horses in the Fylde, and with this view the thorough-bred horse Carbineer was purchased from the Earl of Zetland. After

three years' experience, the promoters of that scheme have every reason to be satisfied with the result of their efforts; and they consider that the numerous premiums won at the various agricultural meetings during the last two years by the young stock got by Carbineer, bear the best testimony to the progress that is being gradually made in this class of stock throughout the district. This success leads the promoters of that scheme to think it desirable that their operations should be further extended, and that the means placed within the reach of the agriculturists of the neighbourhood for improving all classes of stock should be completed by the introduction of a first-class cart-horse. With this view it is proposed to form another Company, to be called "The Fylde Cart-Horse Breeding Improvement Company," and that it be managed upon the same principle as the former one. That the capital of the said Company shall consist of £600, to be raised in shares of £25 each. The Rev. L. C. Wood having brought the subject before the various landowners, the following took shares, viz.: Lord Derby, 4 shares; Mr. J. T. Clifton, 4; Mr. T. H. Miller, 4; Mr. W. P. Miller, 4; Lord Bective, 3; Mr. T. T. Parker, 1; Mr. T. Langton Birley, 1; Mr. C. Birley, 1; Mr. C. A. Birley, 1; Mr. A. L. Birley, 1; Mr. Hutton Birley, 1; Mr. Spencer Leese, 1. The thorough-bred horse Carbineer was purchased of Lord Zetland for £400 in 1860, the year in which he won the Society's £100 at Manchester; and Honest Tom of Mr. W. Welcher for £500. The selection and management of these two stallions have been entrusted to a committee, consisting of Mr. T. Townley Parker, Mr. T. Horrocks Miller, and the Rev. L. C. Wood; and the horses stand at Singleton, near Poulton-le-Fylde, in the centre of the Fylde

district. Since his purchase, Carbineer's stock have been winning at many of the great shows throughout the country, and at a recent meeting in Lancashire his foals of this year beat an equal number of those by Sincerity in a match; while Honest Tom's six years' successive victories are as well backed

on the prize list. So far, then, the Company's capital has been judiciously invested; and although Lord Derby and the other gentlemen who have taken shares may not have looked to much direct return therefrom, there will be a profit in many ways.—*Royal Agricultural Society's Journal.*

THE ROYAL AGRICULTURAL BENEVOLENT INSTITUTION.

[The following letter from Mr. Howard, M.P., which we publish by request, was read by Mr. Thomas Scott, at the last meeting of the Council, who, nevertheless, proceeded with their very remarkable resolution:]

MY DEAR SIR,—Your letter was the first intimation I had heard or seen of what took place at the Bedfordshire ploughing match. I have just referred to the paper; both Mr. Street and Mr. Stafford are influential good men. I have heard our chief clerk, who manages the affairs of the R. A. B. I., complain over and over again of the want of method and attention, and he has wished me several times to throw up the honorary secretaryship, remarking that people were so frequently under the impression that we were to blame for mistakes and inattention.

In writing to Mr. Shaw, sen., upon another subject, some time ago, I embraced the opportunity of telling him what had come to my knowledge, and asked him to look into the matter.

I am satisfied the business is not well done, but I did not like to move in the matter, as I opposed the election of Mr. Shaw, jun., and my motives might have been misunderstood. I am afraid I cannot attend on Tuesday.

I am yours very truly,

T. C. Scott, Esq. JAMES HOWARD.
You are at liberty to read the enclosed at the meeting.
Clapham Park, near Bedford, Nov. 2.

TO THE EDITOR OF THE MARK LANE EXPRESS.

SIR,—In your report of the Council meeting of the Royal Agricultural Benevolent Institution, I find a speech I made at the Bedfordshire Agricultural Society's dinner is referred to, in which I complained of the management of

that Institution, and that the Council passed the following resolution: "The Council having fully investigated the circumstances, desire to record on the minutes of the Society their opinion that the charge therein made is incorrect and unjustifiable."

The report of my speech copied from *The Bedford Times* is perfectly correct, and I am prepared at any time to substantiate all I said. I am fully sensible of the value of this noble Institution, and I should wish to see its usefulness greatly extended. This would be effected by every market in the kingdom being attended by an honorary secretary. In this neighbourhood the Messrs. Howards have from the commencement very kindly undertaken the duties of honorary secretaries, and have served the Institution well; but with their extensive business engagements it is not to be supposed that they can devote more time than they have already done. My business takes me throughout a large portion of Bedfordshire, and brings me in contact with the leading agriculturists, and if the Council should see fit, I shall be very pleased to become an honorary secretary and act in conjunction with the Messrs. Howards. I know full well the great good the Institution has already accomplished, and it will afford me much satisfaction to do all in my power to further its objects.

In conclusion, I would observe that Mr. Scott deserves the thanks of every member of the Institution, for the part he took in the discussion at the Council meeting, and I trust good will result from it.

I am, sir, your obedient servant,

R. BARRY STAFFORD.

St. Mary's, Bedford, Nov. 21.

CARTER AND CO.'S ROOT SHOW, AT THE CRYSTAL PALACE.

The entries were so large that wider space than that which could possibly be made available in Holborn was necessary.

JUDGES.—Mr. J. Brehner, Royal Norfolk Farm, Windsor.

Mr. Higgs, Caversham Park Farm, Reading.

Carter's Imperial swede (24 roots).—First prize, J. Jackman; second, J. Farthing; third, H. Cooper; fourth, J. Lutley. Highly commended: J. Simmonds; H. Hemsley; D. Tully, bailiff to Lord Durham; Mr. Tuff, bailiff to Lord Warwick; J. B. Stedman, W. Goodson, R. C. Strelley, J. Butler. Commended: W. Beale, H. Holland, W. Knight.

Purple-top swede, any variety (24 roots).—First prize, W. Rose; second, J. Cox; third, P. Fowler. Highly commended: S. London.

Pomeranian or other White Globe turnip (16 roots).—First prize, R. Tanner; second, G. Smith.

Devonshire or other Greystone turnip (16 roots).—First prize, G. Gosling; second, W. Rose. Highly commended: R. T. Soffe, G. Smith. Commended: W. S. Heyward.

Lincolnshire or other Red-topped turnip (16 roots).—First prize, J. Jackman; second, W. Beale. Highly commended: J. Tatchell, bailiff to Mr. J. N. King.

Imperial Green or other Green-topped turnip (16 roots).—First prize, W. Coote; second, The Hon. A. Melville. Highly commended: R. Blackwell, T. Higgins.

New Purple-top Mammoth turnip (16 roots).—First prize, W. M. Gibbs; second, F. Fryer; third, Hepburn and Sons. Highly commended: J. Tatchell, bailiff to Mr. J. N. King; J. Hunt.

Green or Purple-top Scotch or Yellow turnip (16 roots).—First prize, W. Baker; second, J. Simpson.

Mammoth or other Long Red mangel (6 roots).—First prize, J. L. Ensor; second, F. Fryer; third, Hepburn and Sons. Highly commended: W. Beale, C. W. Hilliard. Commended: W. Kent, J. New, S. Robinson.

Elvetham or other Long Yellow mangel (6 roots).—First prize, Hepburn and Sons; second, J. L. Ensor. Highly commended: H. R. Sexton.

Warden or other Yellow Globe mangel (6 roots).—First prize, J. L. Ensor; second, T. Beamish; third, J. Butler. Highly commended: Hilder and Sons, W. Brooks. Commended: F. Prior, J. Cridland, C. J. Furnival.

Improved or other Red Globe mangel (6 roots).—First

prize, H. R. Sexton; second, S. London. Highly commended, Hepburn and Sons, J. L. Ensor.

Intermediate Prize mangel (6 roots).—First prize, Hepburn and Sons; second, J. L. Ensor. Highly commended: E. Williams, S. Robinson, J. Cridland. Commended: P. Fowler, W. Lee, W. C. Saunders.

The Finest single Root of mangel, any variety.—Prize, J. L. Ensor. Highly commended: Hepburn and Sons, S. Beamish, R. T. Soffe.

White Belgian carrot (18 roots).—First prize, Captain Walter; second, Rev. F. T. Harris.

Yellow Belgian carrot (18 roots).—First prize, Rev. F. T. Harris; second, J. Simpson.

Red carrot, any variety (18 roots).—First prize, J. L. Ensor; second, Captain Walter.

Imperial or other Green kohl rabi (12 roots).—First prize, J. C. Merrick; second, C. Cooper. Highly commended: Captain Walter, T. Beamish.

Mammoth or other Purple kohl rabi (12 roots).—First prize, Captain Walter; second, J. Simpson.

Prize Nursery or other sugar beet (18 roots).—First prize, S. Kidner; second, J. L. Ensor.

The Finest Ox cabbage.—Prize, S. Robinson. Highly commended: S. Kidner, G. W. Hilliard, J. L. Ensor.

SPECIAL PRIZE.—Carter's New Yellow Tankard-shaped mangel.—Hepburn and Sons.

THE ROYAL BERKS ROOT SHOW.

This exhibition of agricultural roots by Messrs. Sutton and Sons, was held at Reading.

JUDGES.—Roots: Messrs. Long (Binfield), Wilkins (Mortimer), Jenkin Davies (Englefield). VEGETABLES: Messrs. Bell (gardener to the Duke of Wellington), Higgs (gardener to Miss Crawshaw), and Tegg (gardener to Mr. J. Walter, M.P.).

Sutton's Champion Swede (24 roots).—First prize, asilver cup, £10 10s., W. Bullen, Wayford, Crewkerne; second, £5 5s., Strange and Son, Aldermaston; third, £3 3s., Professor J. Buckman, Bradford Abbas, Sherborne; fourth, £2 2s., J. Garraway, Ruscombe. Highly commended: Her Majesty the Queen, Norfolk Farm; J. C. Brown, Corby House, Suffolk. Commended: W. H. Toomer, Twyford; Her Majesty, Bushey Park. 60 entries.

Sutton's Mammoth Long Red Mangel (12 roots).—First prize, £3 3s., Marquis of Ailesbury, Savernake, Marlborough; second, £1 11s. 6d., J. Cave, Rickmansworth, Herts; third, 15s., Hon. Mrs. Hay, Clyffe Hall, Devises. Highly commended: Marquis of Ailesbury; Hepburn and Son, Dartford; G. Baylis, Gayton Farm, Ross. Commended: H. Allsopp, Hindlip Court, Worcester; W. Looker, Clendwarton, King's Lynn. 42 entries.

Long Yellow Mangel (12 roots).—First prize, £2 2s., J. Cave; second, £1 1s., Marquis of Ailesbury. Commended: H. Collins, Wipley Farm, Guildford.

Sutton's Berks Prize Yellow Globe Mangel (12 roots).—First prize, £3 3s., J. Cave; second, £1 11s. 6d., Marquis of Ailesbury; third, 15s., Hon. Mrs. Hay. Highly commended: Hepburn and Son. Commended: H. Allsopp; W. Looker, jun. 40 entries.

Yellow Intermediate Mangel (12 roots).—First prize, £3 3s., Marquis of Ailesbury; second, £1 11s. 6d., J. Cave; third, 15s., Hepburn and Son. Highly commended: J. Morten, Rickmansworth. Commended: J. Byth, Woolhampton House; J. Simonds, Newlands, Reading; G. Baylis, Gayton Farm, Ross. 36 entries.

Sutton's New Golden Tankard Mangel (12 roots).—First prize, £2 2s., Marquis of Ailesbury; second, £1 1s., W. M. Tagg, Charney Wick, Wantage. Extra prize for quality: J. Cave. Highly commended: Hepburn and Son; G. Baylis. Commended: Earlswood Asylum, Redhill. 40 entries.

Red Globe Mangel (6 roots).—First prize, £1 1s., J. Cave; second, J. B. Monk, Coley. Highly commended: C. West, Pangbourne.

White Globe Turnip (12 roots).—First prize, £1 1s., R. Allfrey, Wokefield Park; second, 15s., W. Shackel, Basildon; third, 10s. 6d., J. Cave; fourth, 5s., H. Goddard, Easthamstead. Highly commended: Mr. Holloway, Beech Hill; R. Webb, Beenham; W. Merry, Shinfield. Commended: Marquis of Ailesbury. 16 entries.

Sutton's Purple-top Mammoth Turnip (12 roots).—First prize, £1 1s., J. Bulford, Thordley, Woodstock; second, 10s. 6d., J. Cave; third, 5s., G. Baylis. Commended: Sir Chas. Russell, Swallowfield; R. Webb.

Grey Stone Turnip (12 roots).—First prize, £1 1s., J. Bulford; second, 10s. 6d., J. Cave; third, 5s., H. Frampton, Watership, Newbury. Highly commended: W. H. Toomer.

Commended: Lord Calthorpe, Winchfield; G. Butler, Bramley. 13 entries.

Sutton's Red Paragon Turnip (12 roots).—First prize, £1 1s., J. Cave; second, 10s. 6d., H. Frampton; third, 5s., R. Webb. Highly commended: W. Ilsley, Sherborne St. John, Basingstoke. Commended: W. Wyeth, Bramshill. 10 entries.

Sutton's Yellow Hybrid, or any other Yellow-fleshed Turnip (12 roots).—First prize, 10s. 6d., J. Cave; second, 5s., Marquis of Ailesbury. Commended: R. Webb; G. Baylis.

Tankard Turnip, any variety (12 roots).—First prize, 10s. 6d., J. Cave; second, 5s., Marquis of Ailesbury. Commended: R. Webb.

Sutton's Imperial Green Globe Turnip (12 roots).—First prize, £1 1s., J. Bulford, Woodstock; second, 15s., J. Cave; third, 10s. 6d., W. Bullen; fourth, 5s., Captain Cobham, Shinfield. Highly commended: E. Humfrey, Heywood Farm, Maidenhead. Commended: H. Codd, Benham Lodge; W. J. Strange. 23 entries.

Sutton's Improved Green Kohl Rabi (12 roots).—First prize, £1 1s., J. Cave; second, 10s. 6d., J. Merrick; third, 5s., W. Strange and Sons. Highly commended: Virgo and Son, Womersley, Guildford; Her Majesty the Queen, Bushey Park. 20 entries.

Sutton's Improved Purple Kohl Rabi (12 roots).—First prize, £1 1s.; second, 10s. 6d.; third, 5s.—The judges did not consider them sufficiently good, consequently no prize was awarded.

Sutton's Improved Sugar Beet (12 roots).—First prize, £1 1s., J. Cave; second, 10s. 6d., R. Webb.

Drumhead Cabbage (3 specimens).—First prize, £1 1s., S. Robinson, Shaw House, Melbourne; second, 10s. 6d., G. W. Hildyard, Hanwell, Middlesex; third, 5s., O. Hatton, Chinner. 9 entries.

White Carrot (12 roots).—First prize, 7s. 6d., W. Virgo and Son; second, 5s., O. Hatton. Highly commended: Sir P. Hunter, Bart., Mortimer. Commended: W. M. Tagg. 9 entries.

Sutton's Improved Reading Onion (12 specimens).—First prize 10s. 6d., W. Merry, Shinfield; second, 5s., J. Cave; third, 3s. 6d., Colonel Goodlake, Denham, Uxbridge. Highly commended: T. Gilves, Grove, Wantage. 26 entries.

Sutton's Red-skinned Flourball Potato (24 tubers).—First prize, 10s. 6d., H. T. Moore; second, 5s., T. Giles. 13 entries.

Seedling Kidney Potato (24 tubers).—Prize, 10s. 6d., Mr. Betteridge, Cannon Hill, Chipping Norton.

Seedling Round Potato (24 tubers).—Prize, 10s. 6d., J. Betteridge.

Collection of Vegetables consisting of not less than six varieties (three specimens of each variety).—First prize, £2 2s., Mr. Tegg, gardener to Mr. J. Walter, M.P.; second, £1 1s., Mr. Hunt, gardener to Dr. Wells; third, 10s. 6d., Mr. Read, gardener to F. Wilder. Highly commended: Mr. Russell, gardener to Sir C. Russell, Bart. Commended: T. Giles. 12 entries.

Collection of Potatoes, to comprize not less than three Kidney and three Round varieties, six specimens of each.—First

prize, £1 ls., P. McKinlay; second, 10s. 6d., Sir C. Russell. Highly commended: F. Wilder, Purley Hall. Commended: Dr. Wells, Reading; Hon. Mrs. Hay; T. Giles. 16 entries.

A silver Cup, given by Messrs. Morris and Griffin for the

best Collection of Roots, consisting of six Swedes, six Long Red Mangels, and six Yellow Globe Mangels grown from seeds supplied by Sutton and Sons, and with Morris and Griffin's manures, value £5 5s., J. Cave. Highly commended: W. M. Tagg.

CRYSTAL PALACE POULTRY SHOW.

The largest poultry show ever seen at the Crystal Palace was held during the past week. The place of honour was given to the Dorking, and every variety of the breed was exhibited in coloured, white, silver gray, and cuckoo, and, as well as grown birds, pullets and cockerels. The next class was an exceedingly large one, of Cochins. These, with the Brahmas, made a very fine show, some being of a monstrous size, and of a variety of colours, cinnamon being the common colour of the Cochins, though the partridge colour was well represented. The dark and light Brahmas were plentiful, and strong birds. The Spanish, the Houdans, the Crève-cœurs, the Hamburgs, and the many varieties of the game, bantam, and Polish, were all creditable.

JUDGES.—Dorkings, Cochins, Spanish, French, Ducks, Geese, and Turkeys: Captain Heaton and Mr. Hewitt.—Brahmas: Mr. Teebay.—Game: Mr. J. H. Smith.—Hamburg, Polish, Malays, Variety and Selling Classes: Mr. Martin.

DORKINGS.—COLOURED.—Cock: First prize, J. Martin. Hen: First and Cup, Rev. J. G. A. Baker. Cockerel: First, Cup, Mrs. Arkwright. Pullet: First, Mrs. Arkwright. **SILVER GRAY.**—Cock: First, Rev. T. E. Cato. Hen: First and Cup, O. E. Cresswell. Cockerel: First, F. Cheeseman. Pullet: First, P. H. Jones. **BLUE or CUCKOO.**—First, H. Allen. **WHITE.**—First and Cup, J. Choyce. **ANY VARIETY.**—First, Mrs. E. Wheatley.

COCHINS.—BUFF.—Cock: First and Cup, W. A. Taylor. Hen: First, W. A. Taylor. Cockerel: First, W. A. Taylor. Pullet: First and Cup, W. A. Taylor. **PARTRIDGE.**—Cock: First, T. Stretch. Hen: First, G. Lamb. Cockerel: First, E. Tudman. Pullet: First and Cup, J. N. C. Pope. **WHITE.**—Cock: First and Cup, Mrs. A. Williamson. Hen: First, G. H. Proctor. Cockerel: First and Cup, Whitehead and Beachey. Pullet: First and Cup, R. S. S. Woodgate. **ANY VARIETY (limited).**—First, Mrs. A. Williamson.

BRAHMAS.—DARK.—Cock: First, T. F. Ansdell. Hen: First, T. F. Ansdell. Cockerel: First and Cup, L. Wright. Pullet: First and Cup, Mrs. Arkwright. **Limited Class:** First and Cup, T. F. Ansdell. **LIGHT.**—Cock: First, W. T. Storer. Hen: First, M. Leno. Cockerel: First and Cup, H. M. Maynard. Pullet: First, H. Chawner, jun. **Limited Class:** First, M. Leno.

SPANISH.—Cock: First and Cup, Mrs. Allsopp. Hen: First, E. Jackson. Cockerel: First and Cup, Miss E. Brown. Pullet: First, H. Brown.

HOUDANS.—Cock: First, R. B. Wood. Hen: First, R. B. Wood. Cockerel: First and Cup, E. Wingfield-Stratford. Pullet: First and Cup, B. Heald.

CREVECOURS.—Cock: First, W. Dring. Hen: First, R. B. Wood. Cockerel: First and Cup, R. B. Wood. Pullet: First and Cup, R. B. Wood.

HAMBURGHS.—GOLDEN-SPANGLED.—Cock: First, Duke of Sutherland. Hen: First, W. A. Hyde. **SILVER-SPANGLED.**—Cock: First, J. Fielding. Hen: First and Cup, Ashton and Booth. **GOLDEN-PENCILLED.**—Cock: First, H. and A. Gill. Hen: First, H. Beldon. **SILVER-PENCILLED.**—Cock: First and Cup, H. Beldon. Hen: First, Duke of Sutherland. Black: First, H. Beldon.

GAME.—BLACK-RED.—Cock: First and Cup, S. Matthew. Cockerel: First, G. Bagnall. Hen or Pullet: First, S. Matthew. **BROWN-RED.**—Cock: First and Cup, T. Mason. Cockerel: First, C. W. Brierley. Hen or Pullet: First and Cup, S. Matthew. **DUCKWING.**—Cock: First and Cup, C. Chaloner. Cockerel: First, J. Douglas. Hen or Pullet:

First, J. Douglas. **PILE.**—Cock: First, C. W. Brierley. Hen: First, J. Bressington. **HENNIES, TASSELS, or MUFFS.**—First and Cup, J. Harris.

POLISH.—GOLDEN-SPANGLED.—Cock: First, A. Crutten-den. Hen: First, H. Beldon. **SILVER-SPANGLED.**—Cock: First and Cup, G. C. Adkins. Hen: First, G. C. Adkins. **ANY OTHER VARIETY.**—Cock: First, P. Unsworth. Hen: First, T. Dean.

MALAY.—First, Rev. A. G. Brooke.

SILKIES.—First and Cup, R. S. S. Woodgate.

ANY OTHER VARIETY.—First, N. Cook.

SELLING CLASS.—DORKINGS, BRAHMAS, and COCHINS.—Cock: First, Lady Gwydyr. Hen: First, E. Leech. Cock and Hen: First, E. Leech. **ANY OTHER VARIETY.**—Cock: First, W. K. Patrick. Hen: First, H. Brown. Cock and Hen: First, Rev. W. Serjeantson.

DUCKS.—AYLESBURY.—First, J. K. Fowler. **ROUEN.**—First, F. Cheeseman. **BLACK.**—First and Cup, G. S. Sainsbury. **GEESE.**—First, J. K. Fowler.

TURKEYS.—Cock: First, F. Lythall. Hen: First, F. Lythall.

DEAD POULTRY.—FOWLS.—First, H. Dowsett.

Notwithstanding that to Birmingham is due the credit of having fairly established the science of poultry breeding, there is no question but that birds can never show to so great an advantage as in the wide, lofty thoroughfares of the Crystal Palace. Almost everywhere else everybody is crowded. In the tented field of an agricultural Society, or through the narrow avenues of Bingley Hall, the work of inspection is really hard labour. There is a fluffy, "flea'y" feeling about such exhibitions from which you escape with something like a sigh of relief. But at Sydenham during the past week there was nothing whatever of this kind, although there were between three and four thousand entries to dispose of, and a numerous company of visitors to accommodate. And people really were accommodated, as there was plenty of room and light, and no unseemly crush around even the first-prize gamecock or the very best Dorking.

It was the fashion a few years since for certain mole-eyed philosophers to be continually complaining of the little attention the farmer gave to poultry. Why did we import so many eggs instead of hatching these ourselves? Why did we not make a regular trade out of spring chickens and fat capons? and so forth. All this was precisely after the fashion in which the agriculturist is asked why he does not take all the sewage of towns? And why he does not grow greater crops by such a means? and so on. The reply of course in either case would be the same—it doesn't pay. A man with a holding of any extent has something better to do than giving his mind to cocks and hens, nor would his wife in this age devote her days and nights to so interesting a pursuit. In plain fact there is, as the Americans would say, something of "small potatoes" about such a business. There is an amateur tone, a dilettanti air about the thing, whether the first prize go to Lady A. of some Baronial Hall in the Shires, or to Mr. B. of Prospect Place, Peckham.

Almost inevitably there must have been some improvement effected in the common run of barn-door fowl; but we question whether the best bird to take his chance about a homestead is even now brought into sufficient prominence. There were 230 pens of Dorkings, 224 of Cochins, and 410 of Brahmas; and here, perhaps, from an agricultural point of view, the strength of the show centred. Not that the Dorking is quite a farmer's fancy, as he is difficult to rear, while some of the large foreign birds just now so much in favour would threaten to eat as much as a pointer; though, on the other hand, they would not from their ungainly appearance and uncouth movements promise to be good foragers. Mr. Tegetmeier, however, goes for them in this way: "Half-a-dozen Brahma hens, either of a dark or light variety, large and short-legged, may be run with a good short-legged Dorking cock; the chickens will be found exceedingly hardy, and, if well-fed, will grow rapidly." Thus, as with cattle, a first-cross is the thing to go for, but very high feeding would tell terribly on the profits; and there were prize pens at the Palace which, like prize steers at Islington, must have cost a deal of money in their preparation. The query with us is whether a moderately-sized bird who had shifted more or less for himself would not answer better on a farm than one of larger proportions, who requires to have his meals "reg'lar." Of course we speak to poultry as a merely incidental business, rather than as any very leading feature in the pursuits of agriculture.

Again, from the tricks which are continually played in trimming and plucking birds, it would seem that the judges look more to plumage and colour than to shape and symmetry. In the game classes more especially some of the prizes were lanky, weak birds, standing so badly on their legs as to scarcely realise the character of the bold, defiant game-cock; while inscrutable must be the test of merit with the Cochins, unless they be put in the scale and taken by weight forthwith. We once saw a Cochin China sold for 100 guineas, and if the catalogue can be trusted the same preposterous prices still prevail. But we never see 40 guineas or 50 guineas appended to any entry without calling to mind the man who rode a good-looking screw into a fair. "What is the price of your horse, sir?" asked a dealer. "Two hundred," was the owner's answer. "I'll have him," said the other; and "All right" said the owner again, "'tis a deal." "But I mean two hundred *shillings*," said the buyer. "So do I," said the seller; "take your horse, sir!" In the same way the hundreds and fifties and sixties for Brahmas and Cochins should surely be interpreted.

We were not present on the opening day; but from all we hear the people should be roped off while the judges are at work. There can be no good follow from attempting to judge poultry in public, and at Birmingham exhibitors and others are carefully excluded from this wing of the Hall until the awards have been made. Visitors could not of course be kept out of the Crystal Palace; but they might be kept off until the classes had been appraised.

JOURNAL OF THE FARMERS' CLUB, SALISBURY-SQUARE.—We do not know if this pamphlet, which every month reports the meeting of the Farmers' Club, and is distributed to the members, is in any proper sense a publication. It is a great pity if it is not, for there is a great deal of most useful agricultural writing contained in it; and although it reaches the hands of a very large and influential agricultural constituency, it is to be desired that it were still more widely read. Many years ago we suggested to the Secretary of the Club the policy of selecting and re-editing some of the papers of which this journal has been the vehicle. A very useful and honourable connection, which has now been maintained for many years, might be most serviceably signalled by the occasional issue of a volume thus prepared, and it would serve to make known to a wider public how much ability and intelligence is now brought to bear on the discussion of agricultural subjects.—*The Gardeners' Chronicle*.

SALE OF MR. JOHN HEWER'S HEREFORDS.

By MR. W. G. PREECE, of SHREWSBURY, at THE VERN HOUSE, MARDEN, HEREFORD.

This remainder consisted of 30 cows, heifers, and calves, and 15 stock bulls. For a period of 70 years Mr. Hewer has been engaged in developing and improving the qualities which existed in the herd of his ancestors, who founded a tribe upon whose blood has been based the success of many herds. Mr. Hewer has bred, let, and sold a greater number of Hereford bulls than any other breeder in England. The whole herd was disposed of, as Mr. Hewer has sold his estate and is retiring from business. The following is a list of the prices and purchasers:

COWS, HEIFERS, AND CALVES.

Gipsy Girl and calf, Mr. Lewis, 55 gs.
Giantess 2nd, Mr. W. Dawes, 36 gs.
Lily, Mr. J. Preece, 29 gs.
Her heifer calf, Mr. Hardman, 18 gs.
Delight 2nd, Mr. Bridgman, 42 gs.
Her bull calf, Mr. Bridgman, 28 gs.
Rosebud, Mr. Hardman, 29 gs.
Her heifer calf, Mr. Bridgman, 10 gs.
Fancy, Mr. Jones, 38 gs.
Her heifer calf, Mr. Hardman, 20 gs.
Lofty 3rd, Mr. Wyndham, 50 gs.
Her bull calf, Mr. Lewis, 23 gs.
Lady Harriette, Mr. Wyndham, 29 gs.
Her heifer calf, Mr. Hill, 18 gs.
Rosy, Mr. Hardman, 50 gs.
Her bull calf, Mr. J. Hickman, 42 gs.
Gipsy Queen, Mr. Wyndham, 29 gs.
Her heifer calf, Mr. Hickman, 10 gs.
Spot, Mr. J. Preece, 23 gs.
Her bull calf, Mr. Hughes, 16 gs.
Snowdrop, Mr. Mytton, 27 gs.
Her heifer calf, Mr. Hill, 22 gs.
Fairy Queen, two years, Mr. Wyndham, 25 gs.
Gaudy, two years, Mr. Baldwin, 30 gs.
Rachel, one year, Mr. Wyndham, 21 gs.
Lady, one year, Mr. R. Hickman, 20 gs.
Sylph, one year, Mr. Sparkman, 25 gs.
Lady Emily, one year, Mr. Lewis, 40 gs.
Lovely 2nd, one year, Mr. Evans, 31 gs.
Leah, one year, Mr. J. Preece, 31 gs.

BULLS.

My Lord, Mr. Jones, 35 gs.
Lord Lincoln, Mr. Peren, 62 gs.
Silver King, Mr. Burrows, 39 gs.
Able Boy, Mr. Hardman, 44 gs.
Above All, Mr. Britton, 55 gs.
Jacob, Mr. Downes, 45 gs.
Peter (a twin), Mr. Davis, 44 gs.
Paul (a twin), Mr. Jones, 32 gs.
Golden Pippin, Mr. W. Dawes, 26 gs.
Ackerman, Mr. Williams, 30 gs.
Manfred, one year, Mr. Dodson, 25 gs.
Fairy King, one year, Mr. Yeomans, 24 gs.
Sir Roger, one year, Mr. Jones, 21 gs.
Lord Marden, one year, Mr. Beaman, 36 gs.
Arch Duke, one year, Mr. Burrows, 63 gs.
Total amount of sale,.... £1,529. 17s

SALE OF MR. HENRY HIGGINS' HEREFORDS.—On Tuesday last Messrs. Pye and Sunderland sold by auction, at Woolaston Grange, Gloucestershire, the Hereford herd of Mr. Henry Higgins, who is leaving. The attendance was large. The cows, 27 or 28 in number, were purchased by Messrs. T. St. Brewer, Danygraig; Wyndham, Brockhampton; Moore, Monksbury; Adams; Burgwin, Weston; Davies, Micklethwaite, Gough, Minsterworth, and A. Dowle, at sums ranging from 20 gs. to 25 gs., the following going higher: Miss Chance, 35 gs., and Olive, 29 gs., Mr. Wyndham; Beauty, 33 gs., Mr. Moore; and Fairy, 39 gs., Mr. Brewer. The two-year-old heifers went at from 20 to 40 gs., Mr. Wyndham being a considerable purchaser at 25, 30, and 40 gs. each. Mr. Haywood purchased the whole of the produce of Empress, out of Thingehill, bred by the late Mr. William Raster, out of Old Hampton. The heifer, calves, steers, and dairy cows went at fair prices.

REVIEW OF THE CORN TRADE DURING THE PAST MONTH.

We have but a doleful report to make of the weather during the progress of November. Its main and damaging characteristic has been the continuance of rain and damp, to such an extent as to completely delay the long arrears of work in wheat-planting, and it has given the farmer no chance to turn out a dry sample to meet expenses when discount has risen to an exorbitant rate. Local storms too, of great violence, have raged in the north and round the coast of the British Isles, reaching to Denmark and Northern Germany, and doing much mischief to shipping in many islands in the Baltic, and the whole line of coast, swamping villages, destroying cattle, and moving the soil of one locality to another by the violence of the waters. Luckily for Germany the autumnal planting of wheat was well over; but it is not so in France, though more advanced than here, and Italy had suffered previously by inundations more than any other part of Europe. All this is a bad beginning of the new season, and unless there be something redeeming in the state of the weather as spring comes on, we shall find out the effects of such visitations. The money market also has been as unsettled as the weather fluctuating from 6 to 9 per cent. though better supplies of gold and returning confidence seem likely to lower the rate of discount. The commotion, however, in its diversified forms, has not been able to shake the wheat trade. Badly as the English supplies have come to hand, if not fit for the mill they have been taken for other purposes, and foreign qualities have been gradually hardening, from the conviction that eventually a large consumptive demand will set in, and enhance values. Holders, therefore, for a month past have been indifferent to the appearance of these markets and a limited inquiry, knowing that there is more than meets the eye in the weekly consumption, the reported sales for four weeks again showing a large deficiency, there being only 200,193 qrs., against 286,012 qrs. for the same period last year; and as much of what has been sold was for starch-making and distillation, such a diversion from legitimate use, when there are no English potatoes to fall back upon, must eventually make itself felt. France too, that was to do so much for us, hardly meets the wants of its own millers on several markets, and prices have risen both in Paris and elsewhere from 1s. to 2s. per qr. Belgium and Holland have been firm for all good samples. Russia has kept steady, and its south-eastern ports have pretty well done their season's work, and America has advanced 1s. 8d. per qr. from the lowest, with the certainty that her northern canals will soon be closed. We shall be left then for the winter to our granary stocks, which are not heavy, and arrivals from California, Chili, Australia, Spain, and France; and it is by no means certain that they will furnish any superfluities or even adequate supplies. If things be so, Spring and March winds will both improve qualities and prices. The following rates were recently paid at the places named: White wheat at Paris 58s. 6d., red 56s.; red in Belgium, 59s.; Zealand at Rotterdam 63s.; Polish Odessa at Amsterdam, 60s.; red at Hambro 60s. 6d.; at Petersburg 55s.; high mixed new at Danzig, coast, freight, and insurance, 66s.; old, up to 70s., coast, freight, and insurance; wheat at Berlin, 55s.; at Cologne, 58s. 6d.; at Marianopoli, 45s. 9d.; white at California,

59s., cost, freight, and insurance. Spring red at New York, 52s. per 480 lbs.

The first Monday commenced on a small supply of English wheat, but there was a large arrival of foreign. The show of fresh samples during the morning on the Essex and Kentish stands was limited, and the quality generally so bad as to be unfit for millers' use. Any fine samples offered went off readily at fully previous rates, but inferior lots were left unsold. The foreign trade was moderate, but all really dry and useful parcels were fully as dear as on the previous Monday. Coast cargoes were firm, especially those that were fine. With changeable and mostly wet weather in the country the markets, moderately supplied, were steady. The quality generally offered was too poor for any rise, and the quantity appearing was too limited for a decline; so prices mostly were about the same. The Liverpool market on Tuesday was firm, but on Friday there was a decline of 1d. to 2d. per cental. Wheat at Edinburgh was only firm for fine qualities. The Glasgow trade was in calm. Irish wheat at Dublin was a slow sale, and foreign, rather in favour of buyers.

On the second Monday there was a smaller supply of English wheat, and only half the previous quantity of foreign. The show of fresh parcels on the Essex and Kentish stands was small, and there were no signs of improvement in the quality. Millers for the most part passed it by, but everything suitable to their purpose went off freely at previous quotations. The demand for foreign being strictly of a consumptive character was limited, but there was no giving way in prices. Cargoes off the coast found buyers at previous quotations. With the weather very wet and rough the country markets were not likely to be dearer, as there could be no improvement in the samples; the general reports, therefore, noted great quietness, but without any positive reduction on previous rates. Liverpool on Tuesday was down 2d. per cental, and on Friday business was dull. At Edinburgh no alteration was noted in the value of wheat. At Glasgow business was dull, and 6d. per boll in favour of buyers. Irish wheat at Dublin, from scarcity, was fully as dear; but foreign, being more plentiful, was a shade lower.

On the third Monday there was again but a short supply of home-grown wheat, but the foreign arrivals were good. The small show on the Essex and Kentish stands exhibited no improvement in condition or quality, but rather the reverse; it was therefore again neglected by millers, who only took what few samples of fine that were procurable at the previous rates. The foreign trade evinced increased firmness, prices in America being dearer, and holders of that quality, as well as of fine Saxonska, were generally asking more money, but this checked business. Cargoes off the coast, without being in active request, fully maintained their previous values. The continuance of damp weather this week lessened the supplies at the country markets, but the quality was too poor for any general advance; fine samples, however in some localities obtained rather more money. Liverpool, firm on Tuesday, was 1d. dearer per cental on Friday. The wheat trade at Edinburgh was quiet. At Glasgow there was a fair business at fully the previous

rates. Though Dublin was dull for native wheat, foreign was rather dearer.

On the fourth Monday there was a short supply of English wheat, but plenty of foreign, nearly one-third being from Montreal, and 4,500 qrs. from France. The number of fresh samples on the Essex and Kentish stands was limited, but apparently increased by several overleft samples, which could not be cleared in the previous week. Scarcely a sample was fit for millers' use, but any really fine and dry were a ready sale, at the previous quotations. Considerably more business was done in foreign, at fully the previous currency.

The imports into London for four weeks were 18,883 qrs. English wheat, and 127,890 qrs. foreign; against 22,557 qrs. English, and 202,314 qrs. foreign in 1871. The imports into the kingdom for four weeks ending 16th November, were 4,625,864 cwt. wheat, 551,536 cwt. flour; against 3,905,180 cwt. wheat, 260,189 cwt., flour last year. The month's exports from London were 2,783 qrs. wheat. The London averages commenced at 57s., and closed at 57s. 11d. per qr. The general averages opened at 57s. 11d., and ended at 56s. 8d. per qr.

The flour trade has scarcely varied through the month, and there has been no change in the top price of town-made. Country sorts, after such an unfortunate season, show considerable variety, and there is much inferior very difficult to sell, while the better marks have been placed freely on fully former terms. Good foreign has also found a limited demand for barrels at 32s., and kiln-dried at 36s. The imports into London for four weeks were 82,537 sacks country-made, 22,174 sacks foreign, and 22,157 barrels; against 81,273 sacks English, 7,617 sack 8,449 barrels foreign, for the same time last year.

Though the supply of maize has been moderate during the month, there has been no advance, fair American mixed being still procurable at 29s. 6d. per qr., but round sorts have advanced for chicken food, and are worth 31s. to 32s. A great quantity of this grain having arrived in bad condition, it has been materially against the sale. The four weeks' supply in London have been 20,887 qrs., against 41,335 qrs. in 1871.

The barley trade has increased in importance with the advance of the season and large foreign supplies. Malt-ing sorts have lately been a slow sale, and inferior descriptions for grinding have declined 6d. to 1s. per qr. The French samples are only of secondary quality, both new and old, but very fine lots have come from Hamburg worth 50s. per qr. Fair grinding could be had at 27s. to 28s. per qr. The imports into London for four weeks were 12,769 qrs. British and 102,174 qrs. foreign; against 12,813 qrs. British and 58,847 qrs. foreign, in 1871.

The malt trade gave way 1s. per qr. on the first Monday, but since then there has been no change worthy of note, and the market, though it closed calm, was firm for fine sorts.

This month's imports of foreign oats did not equal its predecessor, and prices have therefore improved 1s. per qr., with a steady trade, though, as the weather at the end of the month became mild, there was less confidence in prices, as the Baltic may yet remain open long enough for free shipments to be made. The severe storms lately experienced there have, however, done damage to shipping, and less may arrive than expected, when we should not be at all surprised to see some advance on present rates. 40lbs. Swedes are worth about 23s. 6d. per qr., 38lbs. 22s. 6d., and lower sorts in proportion, as well as Russian qualities. The imports into London for four weeks were 3,915 qrs. English, 1,250 qrs. Irish, 151,544 qrs. foreign, against 1,570 qrs. English, 147,407 qrs. foreign in 1871.

Beans have scarcely varied through the month. At its

opening, with cold weather, the tendency was upwards; but eventually the trade slackened, and the sale of new English was certainly against sellers, 33s. for ticks and mazagans being difficult to obtain. Egyptian were worth 32s., French and Syrian 35s. to 36s. The imports into London for the month were 3,672 qrs. English, 12,235 qrs. foreign, against 4,541 qrs. English, 9,762 qrs. foreign for the same time in 1871.

Peas, which ruled firm through the cold weather, lost their buoyancy as the mild temperature returned; but boilers of good quality have been saleable at fully 42s., duns at 35s., grey the same. All depends on the winter whether white sorts will be dearer, stocks being short—if severe, it would send up values. The imports into London for four weeks were 3,174 qrs. English, 6,817 qrs. foreign, against 6,668 qrs. English, 8,504 qrs. foreign in 1871.

The imports of linseed have lately increased; but there has been no effect produced on prices. There being but little in store, they have been well maintained, fine East Indian being worth 67s., other good sorts 60s. Cakes have experienced a fair demand, being wanted for cattle.

The seed trade has lately been on a small scale. Prices were rising in the belief of a poor crop of English red Cloverseed, till the advance brought a pause on the part of dealers, who were unwilling to go further in anticipating the season. But lately so little really strong purple quality has appeared, that improved rates have been paid for small picked lots of French, which has lately been advancing in Paris. White seed has also hardened in value; but tares remain neglected.

The corn trade of the past month has certainly assumed a firmer aspect. The scarcity of fine samples of wheat has been more and more confirmed, and whilst inferior sorts have been irregular in value, fine dry samples, of both English and foreign growth, have commanded extreme quotations. Doubtless throughout the season full rates will continue to be paid for good qualities, but it is an open question whether the quotations will rule so high as has been anticipated in some quarters. There is no doubt that there will be a greater disparity between the highest and lowest quotations than is usual, owing to the acknowledged inferior quality of the grain; but although there is every prospect of fine samples being disposed of at very full rates, we question whether there will be such an important permanent advance established as some expect. Since the 1st of September we have imported about 12,500,000 cwt. of wheat, being about half a million cwt. in excess of last year, whilst we have exported only about 83,000 cwt., against about 1,210,000 cwt., so that there has been a net increase in the grain wealth of the country of about one and a-half million cwt. over the corresponding period last year. At the same time there is a large quantity of wheat on passage. The actual number of cargoes afloat is about 370, against 392 at the corresponding period last year. But it must be borne in mind that steam shipping has in a great measure usurped the place of sailing vessels, and although the number of vessels afloat may be less than at this time last year, the actual quantity of grain carried, owing to the heavier tonnage employed, is in excess of that period.

We are advised that the Port of Taganrog is closed, and an effectual shutting up of the Black Sea and Baltic Ports until the Spring may be daily expected; but we may still look for good supplies from America. The late depletion of stocks at New York, caused by the liberal exports, has been remedied, and a thorough replenishment may be expected before the closing of canal navigation by ice; whilst the limited amount of tonnage offering alone precludes an extensive export from California.

We have now approached that period in the trade where quietness becomes the ruling characteristic, and as there has been an absence of speculation, the demand being mostly of a hand-to-mouth description, we need not look for any extensive transactions between this and Christmas, unless the position of affairs is materially altered. But fine wheats will undoubtedly continue to command extreme currencies.

As regards spring corn, fine malting barley has been in healthy request, and has been readily disposed of at improving prices; but for grinding and distilling sorts the demand has been inactive, and less money has been occasionally accepted. Oats, on the other hand, have been firm, in consequence of the prospect of a curtailment of our Russian receipts, and prices have been well sustained. Maize has experienced a good consumptive inquiry, but owing to the enormous supplies, prices have not improved. Beans and peas have been dull, and occasionally lower.

The following table shows the average weekly import of grain into the United Kingdom, since Sept. 1st of the current and past years.

	1872. cwt.s.	1871. cwt.s.
Wheat	1,131,115	1,095,751
Barley	310,276	242,252
Oats	227,525	189,480
Peas	33,439	13,582
Beans	53,786	88,018
Indian corn	58,533	516,671
Flour	116,306	76,069

Annexed is a table showing the average prices of grain

realised since September 1st of the current and four previous years:

Years.	Wheat.		Barley.		Oats.	
	s.	d.	s.	d.	s.	d.
1868	53	5	45	5½	26	11½
1869	48	0½	37	0½	24	3½
1870	47	3	36	6	22	8
1871	56	7½	36	4	23	8½
1872	58	3½	40	7½	22	11

The progress made by farmers in field labours has been very moderate. The extraordinary quantity of rain that has fallen has so thoroughly saturated the soil, that heavy lands have not been worked without the greatest difficulty. Consequently, sowing operations are in a very backward state, and that great desideratum, a dry seedbed, has been so far lost. In fact, a worse seed-time than we have had has not been experienced for some years, and it is a bad augury for the result of the future harvest. The potato disease has caused serious losses, and it is not improbable that it may become still more general. Fine samples of home growth are very scarce, and are making as much as £10 per ton; but there are large supplies of foreign offering, at from 70s. to 85s. per ton. The root crop in Scotland is very poor, and in Norfolk, although the yield is stated to be good, the quality is indifferent.

REVIEW OF THE CATTLE TRADE DURING THE PAST MONTH.

The fluctuations in prices during the past month have not been important, a decline of about 2d. per 8lbs. having taken place in the value of both beasts and sheep. The total supplies of stock which have come to hand have been about an average, although the number exhibited at the Metropolitan Market has not been so large as on former occasions, as about 8,000 Tonnage beasts and say 7,000 sheep have been obtained at Deptford. The foreign stock offered at the Metropolitan Market has been unimportant, both as regards number and quality, and the prices realised for such have been irregular. We have also received upwards of 3,700 head from Ireland, of which about 3,000 have been old cows; consequently the actual weight of meat on sale has not been so large as would appear from a cursory glance at the figures. From our own grazing districts a fair number has been received, but the quality has been barely as good as we should have expected, considering the heavy hay crop. Middling breeds have predominated. The Scotch season has commenced, but so far the arrivals have not been large. A good show is expected for the Christmas market, but the arrivals during the early part of next year are not expected to come well to hand. The weather in the North has been so very bad that the stock that has been out to grass has failed to improve materially in condition, and it is thought that a future of high prices is before us. Roots in Scotland are yielding badly. The best Scots have occasionally made 6s., but 5s. 8d. per 8lbs. has since been accepted.

As regards sheep, a fair supply has been on offer, including a good show of Dutch. The trade has been alternately steady and depressed, but the price for the best Downs and half-breeds has not exceeded 6s. 8d. per 8lbs.

Prime small Calves have been in request, and have realised full prices. Inferior breeds have been dull.

The pig trade has been inactive.

The total imports of foreign stock into London last month have been as follows:

	Head.
Beasts	4,228
Sheep	35,112
Calves	2,289
Pigs	204

COMPARISON OF IMPORTS.

Nov.	Beasts.	Sheep.	Calves.	Pigs.
1871	12,846	56,299	1,857	2,812
1870	14,906	43,830	2,177	2,463
1869	9,664	32,091	1,713	2,208
1868	9,391	18,162	598	353
1867	10,761	33,202	618	2,069
1866	13,278	38,389	1,290	1,187
1865	16,254	52,517	2,526	7,770
1864	17,137	34,792	2,970	3,947
1863	11,020	30,447	1,770	2,202
1862	6,839	28,577	1,659	633
1861	5,295	27,833	946	1,241
1860	6,961	22,723	1,604	828
1859	5,927	21,907	997	159
1858	4,786	18,258	1,174	166

The arrivals of beasts from our own grazing districts, as well as from Scotland and Ireland, thus compare with the three previous years:

	Nov. 1869.	Nov. 1870.	Nov. 1871.	Nov. 1872.
From Lincolnshire, Leicestershire, & Northamptonshire...	9,550	5,250	9,150	8,750
Other parts of England, including Norfolk & Suffolk ...	2,048	1,450	2,100	3,430
Scotland	158	1,020	79	240
Ireland	2,312	620	600	3,730

The annexed figures show the total supplies of stock exhibited and disposed of at the Metropolitan Market during the month:

Beasts	18,620	Head.
Sheep	77,590	
Calves	1,995	
Pigs	856	

COMPARISON OF SUPPLIES.

Nov.	Beasts.	Sheep.	Calves.	Pigs.
1871	25,100	103,930	2,017	720
1870	15,570	96,920	2,232	1,670
1869	21,390	77,990	1,604	615
1868	19,249	98,390	1,048	1,404
1867	24,080	109,960	1,016	2,350
1866	24,660	95,800	1,190	3,090
1865	36,820	167,230	2,858	2,811
1864	32,600	114,300	2,587	2,900
1863	27,704	99,130	2,156	3,170
1862	30,129	110,020	2,313	3,172
1861	26,590	109,370	1,370	3,430
1860	26,400	103,600	2,112	2,920
1859	26,492	120,840	1,299	2,800
1858	24,356	114,643	1,437	2,970

Beasts have sold at from 3s. 10d. to 5s. 10d.; sheep, 4s. 2d. to 7s.; calves, 5s. to 6s.; and pigs at from 3s. 8d. to 5s. per 8lbs., sinking the offal.

COMPARISON OF PRICES.

	Nov., 1868.				Nov., 1869.			
	s.	d.	s.	d.	s.	d.	s.	d.
Beef from...	3	4	to	5	4	4	to	5
Mutton	2	10	to	5	2	6	to	5
Veal	2	6	to	5	4	0	to	6
Pork	3	4	to	4	4	4	to	6

	Nov., 1870.				Nov., 1871.			
	s.	d.	s.	d.	s.	d.	s.	d.
Beef from...	3	4	to	6	3	10	to	5
Mutton	3	4	to	6	4	4	to	6
Veal	3	6	to	5	3	8	to	5
Pork	4	4	to	6	3	6	to	4

ENGLISH WOOL MARKET.

LONDON, MONDAY, November 25.—The public sales of colonial wool are progressing with steadiness. Biddings for all descriptions are animated, and Australian sorts are 1d. to 2d. per lb. higher. Cape are unaltered in value. In English wool transactions have not been large, but there has been considerable steadiness apparent, and full prices have been obtained.

CURRENT PRICES OF ENGLISH WOOL.

		s.	d.	s.	d.
FLEECES—Southdown hogs..... per lb.	1	9½	to	1	10½
Half-bred ditto	1	9½	to	1	10
Kent fleeces	1	10½	to	1	11
Southdown ewes and wethers ..	1	9	to	1	10
Leicester ditto	1	11	to	2	0
Sorts—Clothing, picklock	1	7	to	1	8
Prime	1	4	to	1	5
Choice	1	3	to	1	3½
Super	1	2	to	1	2½
Combining, wether mat.	1	10½	to	1	11
Picklock	1	7½	to	1	8
Common	1	6	to	1	7½
Hog matching	1	11½	to	2	0½
Picklock matching	1	7½	to	1	8
Super ditto	1	6	to	1	7½

IMPERIAL AVERAGES

For the week ended November 16, 1872.

Wheat	48.071½	qrs.	56s.	8d.
Barley	62.872½	qrs.	41s.	11d.
Oats	4.407½	qrs.	23s.	3d.

COMPARATIVE AVERAGES.

	WHEAT.				BARLEY.				OATS.			
Years.	Qrs.	s.	d.		Qrs.	s.	d.		Qrs.	s.	d.	
1868	66.613½	...	51	6	74.887½	...	47	3	4.646	...	23	4
1869	57.506	...	46	8	72.221½	...	38	8	4.077½	...	23	5
1870	73.662	...	49	10	85.699½	...	36	8	4.643½	...	23	11
1871	64.054½	...	55	11	87.436½	...	38	9	4.149½	...	23	0
1872	48.071½	...	56	8	62.872½	...	41	11	4.407½	...	23	3

AVERAGES

FOR THE SIX WEEKS				Wheat.				Barley.				Oats.			
ENDING				s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
Oct. 12, 1872.....	53	9	41	9	23	2		53	9	41	9	23	2		
Oct. 19, 1872.....	53	8	42	11	23	3		53	8	42	11	23	3		
Oct. 26, 1872.....	57	11	43	10	23	0		57	11	43	10	23	0		
Nov. 2, 1872.....	57	4	44	1	23	6		57	4	44	1	23	6		
Nov. 9, 1872.....	56	9	43	3	22	4		56	9	43	3	22	4		
Nov. 16, 1872.....	56	8	41	11	23	3		56	8	41	11	23	3		
Aggregate of the above.....	57	8	42	11	23	1		57	8	42	11	23	1		
The same period in 1871.....	56	5	37	0	23	2		56	5	37	0	23	2		

FLUCTUATIONS in the AVERAGE PRICE of WHEAT.

PRICE.	Oct. 12.	Oct. 19.	Oct. 26.	Nov. 2.	Nov. 9.	Nov. 16.
58s. 9d.	...	...	...	...	...	...
58s. 8d.	...	...	...	...	...	...
57s. 11d.	...	...	...	...	...	...
57s. 4d.	...	...	...	...	...	...
56s. 9d.	...	...	...	...	...	...
56s. 8d.	...	...	...	...	...	...

LONDON AVERAGES.

Wheat	3297	qrs.	57s. 11d.
Barley	1712	qrs.	41s. 10d.
Oats	—	qrs.	—s. —d.

CURRENT PRICES OF BRITISH GRAIN AND FLOUR IN MARK LANE.

		Shillings per Quarter.
WHEAT, Essex & Kent, white old 58 to 67, new 50 58, fine 68		
Norfolk, Linc. sh., and Yorksh., red, old.....	57	62
Barley	31	to 35
Grinding	27	30
MALT, pale 66 75.....	55	60
RYE	36	38
OATS, English, feed 21 to 28.....	27	33
Scotch, feed.....	00	00
Irish, feed, white 18 21.....	22	24
Ditto, black.....	21	22
BEANS, Mazagan	31	33
Harrow	33	35
PEAS, white, boilers 37 40 Maple 37 to 40 Grey, new 32 35		
FLOUR, per sack of 280lbs., best town households ..	50	57
Best country households	43	47
Norfolk and Suffolk	40	42

FOREIGN GRAIN.

		Shillings per Quarter.
WHEAT, Dantzic, mixed	60	to 65
Königsberg	60	65
Rostock	61	64
Silesian, red.....	59	62
Pomera., Meckburg., and Uckermark	61	63
Russian, hard, 47 to 51 St. Petersburg and Riga.....	55	60
Danish and Holstein, red 60 63.....	58	61
Chilian, white 67.....	65	68
BARLEY, grinding 25 to 30.....	31	34
OATS, Dutch, brewing and Poland 19 to 24.....	16	20
Danish and Swedish, feed 20 to 23.....	20	23
Canada 19 to 21, Riga 19 to 22, Arch. 19 to 22, P'sbg. 20 23		
TARES, Spring, per qr.....	35	36
BEANS, Friesland and Holstein	34	36
Königsberg.....	32	34
PEAS, feeding and maple	32	37
INDIAN CORN, white.....	32	34
FLOUR, per sack, French.....	00	00
American, per bbl.	25	28

BRITISH SEEDS.

Mustard, per bush., brown 12s. to 16s., white ..	7s.	to 10s.
Canary, per qr.	new 56s. 58s.	old 54s. 55s.
Cloversd., fine red and dark purple 4s. 9s. 2s. com.	56s.	66s.
Coriander, per cwt.	24s.	25s.
Tares, winter, new, per bushel.....	4s. 6d.	4s. 9d.
Trefoil, old and low 16s. to 20s.	new fine 22s.	24s.
Ryegrass, per qr.	22s.	30s.
Linseed, per qr.	sowing 66s. to 68s., crushing 60s.	63s.
Linseed Cakes, per ton	£11 10s.	to £11 15s.
Rapeseed, per qr.	64s.	66s.
Rape Cake, per ton	£6 6s. 0d.	to £6 10s. 0d.

FOREIGN SEEDS.

Coriander, per cwt.	24s.	to 25s.
Cloversed, red 56s. to 58s.	white 70s.	75s.
Hempseed, small 40s. to 42s. per qr.	Dutch 45s.	46s.
Trefoil	16s.	18s.
Ryegrass, per qr.	28s.	34s.
Linseed, per qr.	Baltic 58s. to 63s., Bombay 65s.	68s.
Linseed Cakes, per ton	£10 16s.	to £11 15s.
Rape Cake, per ton	£6 6s.	to £6 10s.
Rapeseed, Dutch.....	62s.	63s.
Carraway ,, new.....	33s.	34s.

PRICES OF BUTTER, CHEESE, HAMS, &c.

BUTTER, per cwt.: s.				CHEESE, per cwt.: s.			
Dorset	140	to 148		Cheshire	58	to 80	
Friesland	120	134		Dble. Glouc., new 60 76			
Jersey	108	120		Cheddar.....	74	88	
ENG. FESSR, per doz. 16 18				American	50	70	
BACON, per cwt:				HAMS: York.....	—	—	
Wiltshire, green.....	66	70		Cumberland.....	110	116	
Irish, green, f.o.b. 64 72				Irish	94	112	

BARK AND TANNING MATERIALS.

LONDON, SATURDAY, Nov. 23.

	£	s.	£	s.		£	s.	£	s.
English, per load of 45 cwt. delivered in London.....	13	0	10	0	Cork Tree, Barbary.....	6	0	7	0
Dutch, per ton.....	5	0	5	10	Do. Sardinian.....	9	0	10	0
Hambro'	5	0	5	10	Valonia, Smyrna	15	0	19	0
Antwerp Tree	5	5	5	15	Do. Camata	0	0	0	0
Do. Coppice.....	5	15	6	10	Do. Morea	14	0	17	10
French Chopped	8	10	9	10	Gambier in bales	26	0	27	0
Do. Ground.....	8	10	10	10	Ditto, cubes, pressed 28 0 28 10				
Do. Long	7	5	8	0	Ditto, cubes, free.....	29	10	30	0
					French Cutch, best Pegu.....	21	0	23	0
					Myrabolans	10	0	17	0
					Sumach, Sicily	20	0	21	0

LONDON AND COUNTY BANKING COMPANY.

ESTABLISHED 1836.

SUBSCRIBED CAPITAL...£2,500,000, in 50,000 SHARES of £50 EACH.

PAID-UP CAPITAL...£1,000,000 RESERVE FUND...£500,000.

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THE LONDON AND COUNTY BANK opens—

DRAWING ACCOUNTS with Commercial Houses and Private Individuals, either upon the plan usually adopted by other Bankers, or by charging a small Commission to those persons to whom it may not be convenient to sustain an agreed Permanent Balance.

DEPOSIT ACCOUNTS.—Deposit Receipts are issued for sums of Money placed upon these Accounts, and Interest is allowed for such periods and at such rates as may be agreed upon, reference being had to the state of the Money Market.

CIRCULAR NOTES AND LETTERS OF CREDIT are issued, payable in the principal Cities and Towns of the Continent, in Australia, Canada, India, and China, the United States, and elsewhere.

The Agency of Foreign and Country Banks is undertaken.

The PURCHASE and SALE of Government and other Stocks, of English or Foreign Shares effected, and DIVIDENDS, ANNUITIES, &c., received for Customers of the Bank.

Great facilities are also afforded to the Customers of the Bank for the receipt of Money from the Towns where the Company has Branches.

The Officers of the Bank are bound not to disclose the transactions of any of its Customers.

By Order of the Directors,

WM. MCKEWAN, General Manager.

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CAPITAL.—Persons insured by this Company have the security of an extensive and wealthy proprietary as well as an ample Capital always applicable to the payment of claims without delay.

LIFE DEPARTMENT.—BONUS.—Insurers of the participating class will be entitled to four-fifths of the profits.

ASSIGNMENTS.—The Company grant Policies payable to the Registered Holders, whereby much expense and inconvenience are prevented. Stamp Duty paid by the Office.

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1st Class—Not Hazardous	...	...	...	...	1s. 6d. per Cent.
2nd Class—Hazardous	...	...	...	...	2s. 6d. "
3rd Class—Doubly Hazardous	...	...	...	...	4s. 6d. "

BUILDINGS and MERCANTILE Property of every description in Public or Private Warehouses.—Distillers, Steam Engines, Goods in Boats or Canals, Ships in Port or Harbour, &c. &c., are Insured in this Office at moderate rates.

SPECIAL RISKS.—At such rates as may be considered reasonable.

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RENT.—The Loss on Rent while Buildings remain untenable through fire may be provided against.

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Policies to protect parties from Loss by the destruction of Growing Crops or Glass, by Hail, are granted on Moderate Terms.

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Apply to JOHN REDDISH, Esq., Secretary and Actuary.

